

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: January 16, 2003, 06:36:16 ; Search time 46 seconds

(without alignments)
1486.716 Million cell updates/sec

Title: US-09-817-199A-2

Perfect score: 1150

Sequence: 1 MTGTPGAVATRDGEAPERSP.....FOIRDYVESOKKRSOCCSF 223

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame_plus_p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO_spool/US09817199/runat_13012003_120311_23011/app_query.fasta_1.391
-DB=Issued_Patents_NA -QFMT=fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09817199 -CGN1_1_17 -runat_13012003_120311_23011 -NCPU=6 -ICPU=3
-NO_XLPXY -NO_MMAP -LARGEQUERY -NSG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

- 1: Issued_Patents_NA.*
- 2: /cgn2_6/ptodata/1/ina/5A.COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/5B.COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6A.COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/6B.COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/PCTUS.COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1150	100.0	2612	4	US-09-484-970B-142
2	1140	99.1	875	4	US-09-075-454-10
3	731	63.6	1340	2	US-08-824-873-2
4	731	63.6	1340	3	US-09-198-184-2
5	470	40.9	925	2	US-08-916-901-4
6	470	40.9	925	4	US-09-154-602-4
7	448.5	39.0	639	4	US-09-399-913-66
8	385	33.5	970	3	US-08-888-077A-28
9	372	32.3	803	4	US-09-075-454-13
10	359	31.2	847	2	US-08-773-423-4
11	302.5	26.3	1175	2	US-08-773-423-6
12	296	25.7	820	3	US-08-741-411-6

13	294.5	25.6	1533	4	US-09-075-454-11	Sequence 11, Appl
14	291	25.3	1172	4	US-09-075-454-8	Sequence 8, Appl
15	284.5	24.7	848	3	US-08-741-411-2	Sequence 2, Appl
16	279	24.3	1749	4	US-09-149-476-54	Sequence 54, Appl
17	277	24.1	1255	2	US-08-766-551-6	Sequence 6, Appl
18	265.5	23.1	607	2	US-08-429-964-85	Sequence 85, Appl
19	265.5	23.1	4480	4	US-09-167-322-12	Sequence 12, Appl
20	264.5	23.0	574	2	US-08-429-964-83	Sequence 83, Appl
21	262.5	22.8	5775	1	US-08-306-691B-15	Sequence 15, Appl
22	262.5	22.8	5775	5	PCT-US93-06251-29	Sequence 29, Appl
23	258.5	22.5	890	3	US-08-741-411-4	Sequence 4, Appl
24	256.5	22.3	1334	2	US-08-916-901-2	Sequence 2, Appl
25	256.5	22.3	1334	4	US-09-154-602-2	Sequence 2, Appl
26	253	22.0	615	1	US-08-247-946A-5	Sequence 5, Appl
27	253	22.0	615	5	PCT-US95-06420-5	Sequence 5, Appl
28	252.5	22.0	1098	2	US-08-948-616-6	Sequence 6, Appl
29	252.5	22.0	1098	2	US-09-193-510-6	Sequence 6, Appl
30	252.5	22.0	1098	4	US-09-368-402-6	Sequence 6, Appl
31	251.5	21.9	1407	4	US-09-493-914-1	Sequence 1, Appl
32	250	21.7	2436	1	US-08-306-691B-16	Sequence 16, Appl
33	249.5	21.7	985	4	US-08-842-306B-1	Sequence 1, Appl
34	249.5	21.7	985	4	US-08-838-973B-1	Sequence 1, Appl
35	249.5	21.7	985	4	US-08-771-212A-1	Sequence 1, Appl
36	249.5	21.7	3198	4	US-08-842-306B-48	Sequence 48, Appl
37	249.5	21.7	3198	4	US-08-838-973B-48	Sequence 29, Appl
38	248.5	21.6	603	4	US-09-325-932A-29	Sequence 28, Appl
39	248.5	21.6	932	4	US-09-325-932A-28	Sequence 2, Appl
40	245	21.3	570	4	US-08-884-866A-2	Sequence 2, Appl
41	243	21.3	570	4	US-08-884-866A-11	Sequence 11, Appl
42	243	21.1	914	2	US-08-773-423-2	Sequence 2, Appl
43	241.5	21.0	702	3	US-08-842-976-2	Sequence 2, Appl
44	241.5	21.0	702	3	US-09-213-397-2	Sequence 2, Appl
45	241.5	21.0	702	3	US-09-416-489-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1

US-09-484-970B-142
; Sequence 142, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Voikmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; CURRENT APPLICATION NUMBER: US/09/484.970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 142
; LENGTH: 2612
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 412477.1CB1
US-09-484-970B-142

Alignment Scores:			
Pred. No.:	3.4e-146	Length:	2612
Score:	1150.00	Matches:	223
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	4	Gaps:	0

US-09-817-199A-2 (1-223) x US-09-484-970B-142 (1-2612)

Qy 1 MetThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerPro 20

Db 16 ATGACGGGACGCCAGGGCGGCTTCCACCGGGATGCGAGGCCCGCCGAGCGTCCCG 75

QY 21 ProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyVal 40
Db 76 CCCTGCAGTCCGAGCTACGACCTCAGGGCAAGTGATGCTTCTGGAGACACAGGCGTC 135
QY 41 GlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIle 60
Db 136 GGCAAAACATGTTCTCTGATCCCAATCAAAGACGGGCGCTTCTCTCCGGAACCTTCATA 195
QY 61 AlaThrValGlyLysPheAspLeuValThrValAspGlyValArgValLys 80
Db 196 GCCACCGTCGGCATAGACTTCAGGAACAAGTGCTGACTGTGGATGCGGAGAGTGAAG 255
QY 81 LeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyr 100
Db 256 CTCGACATCTGGACACCGCTGGCGAGGAACGGTTCGGAAGCGCTCACCCATGCTTATTAC 315
QY 101 ArgAspAlaGlnAlaLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsn 120
Db 316 AGAGATGCTCAGGCGCTTCTCTGCTGATGACATCACCAACAAATCTTCTTCGACAAAC 375
QY 121 IleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeu 140
Db 376 ATCAGGCGCTGGCTCACTGAGATTGATGATGATGATGATGATGATGATGATGATGATG 435
QY 141 LeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThr 160
Db 436 CTAGGCAACAAGCGGATATGACGCGGAAGAGTATCGTTCCGGAAGCGGAGAGACC 495
QY 161 LeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnVal 180
Db 496 TTGGCCAGGGAGTACGGTGTCTCTGAGACAGGCGGCAAGACTTGGCATGAATGTG 555
QY 181 GluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAsp 200
Db 556 GAGTTAGCTTTCTGGCCATTCGCAAGGAAGTCAATACCGGCGCGGATCAGGCGGAT 615
QY 201 GluProSerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerCysCys 220
Db 616 GAGCCAGCTTCCAGATCCGAGACTATGATAGATCCAGAGAAGCGCTCCAGCTGCTGC 675
QY 221 SerPheMet 223
Db 676 TCCTTCATG 684

RESULT 2

US-09-075-454-10
; Sequence 10, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerione, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCLST01
; CLONE: 1528559
; US-09-075-454-10

Alignment Scores:
Pred. No.: 1,34e-145 Length: 875
Score: 1140.00 Matches: 221
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.13% Indels: 0
DB: 4 Gaps: 0

US-09-817-199a-2 (1-223) x US-09-075-454-10 (1-875)

QY 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProCys 22
Db 3 GCGACGCGAGCGCGTTCACCGCGGATGGCGAGCCCGCGAGCGCTCCCGCCCTGC 62
QY 23 SerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys 42
Db 63 AGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGCGCTGGCAAA 122
QY 43 ThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr 62
Db 123 ACATGTTCTCTGATCCCAATCAAAGACGGGCGCTTCTGTCGGAACCTTCATAGCCACC 182
QY 63 ValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGln 82
Db 183 GTCGGCATAGACTTCAGGAACAAGTGGTGACTGTGGATGGCGTGAGAGTGAAGCTGCAG 242
QY 83 IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAsp 102
Db 243 ATCTGGGACACCGCTGGCGAGGAACGGTTCGGAAGCGCTCACCCATGCTTATTACAGAGAT 302
QY 103 AlaGlnAlaLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArg 122
Db 303 GCTCAGCCCTTGGCTTCTGCTGTATGACATCCCAACAAATCTTCTTTCGACACATCAGG 362
QY 123 AlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGly 142
Db 363 GCCTGGCTCACTGAGATTTCATGATGATGCCAGAGGACCTGGTGATCATGCTGTAGGC 422
QY 143 AsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAla 162
Db 423 AACAGCGGATATGACGAGGAAGAGTATCCGTTCCGAAGACGAGAGACCTTGGCC 482
QY 163 ArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValIleLeu 182
Db 483 AGGAGTACGGTGTCTCCCTTCCTGGAGACCGCCGAGACTGGCATGATGTGGAGTTA 542
QY 183 AlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluPro 202

```
Db 543 GCCTTTCTGGCCATCGCCAGCAACTGAATACCGGGCCGGCCATCAGCGCGATCAGCC 602
Qy 203 SerPheGlnIleAlaArgTyrValGluSerGlnLysLysArgSerCysCysSerPhe 222
Db 603 AGCTTCAGATCCGAGACTATGTAGATGCCAGAGAAGCCGCTCCAGCTGCTGCTCTTC 662
Qy 223 Met 223
Db 663 ATG 665

RESULT 3
US-08-824-873-2
; Sequence 2, Application US/08824873
; Patent No. 5843717
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/824,873
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PANCN0704
; CLONE: 738957
;
US-08-824-873-2
Alignment Scores:
Pred No.: 1.34e-89 Length: 1340
Score: 731.00 Matches: 141
Percent Similarity: 86.73% Conservative: 29
Best Local Similarity: 71.94% Mismatches: 25
Query Match: 63.57% Indels: 2
DB: 2 Gaps: 0

US-09-817-199a-2 (1-223) x US-08-824-873-2 (1-1340)
Qy 26 TyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPhe 45
Db 22 TACGACGTCGCTTCAAGGTATGCTGCTGGGGACTCGGTGGGGAAGACCTGCTG 81
Qy 46 Leu-IleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheLeAlaThrValGlyI 65
Db 82 CTGGTGGGATCAAGGATGCTTCTCGCGGGGACCTTCATCTCCACCGTAGC-AT 140
```

```
Qy 65 eAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrpAs 85
Db 141 TGACTTCGGGAACAAGTTCTGGAGCGTGATGCTGAGGTGAAGCTGCAAGATGTGGGA 200
Qy 85 pThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAl 105
Db 201 CACAGCTGGTCAGGAGCGGTTCCGAGGTATTACCATCCCTACTACCGGGATGCTCATGC 260
Qy 105 aLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLe 125
Db 261 TCTGCTGCTGCTACGATGTCACCAACAGGCGCTCTTTGACAACATCCAGGCGTGGCT 320
Qy 125 uThrGluIleHisGluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsnLysAl 145
Db 321 GACCGAGATCCAGGATGACGCCAGCAGCAGTGGCGCTCATGCTGGGGACAAAGGT 380
Qy 145 aAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTy 165
Db 381 GGACTCTGCCCATGAGCGTGTGTGAAGAGGAGGACGGGAGAGCTGCCAAGGAGTA 440
Qy 165 rGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLe 185
Db 441 TGGACTGCCCTTCATGGAGACCGCCAGCAGCGGCTCAACGTGGACTTGGCCTTCAC 500
Qy 185 uAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluProSerPheGl 205
Db 501 AGCCATAGCAAGGAGTTGAAGCAGCGCTCCATGAGGCTCCACCGAGCGCGCTTCGC 560
Qy 205 nIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 561 GCTGCATGATTACGTTAAGAGGAGGCGGTGCGAGGGGCGCTCCTGCTGCTGC 606

RESULT 4
US-09-198-184-2
; Sequence 2, Application US/09198184
; Patent No. 6010859
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/824,873
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1340 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
```

```

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PANCNOT04
; CLONE: 738957
; US-09-198-184-2
;
Alignment Scores:
Pred. No.: 1,34e-89 Length: 1340
Score: 731.00 Matches: 141
Percent Similarity: 86.73% Conservative: 29
Best Local Similarity: 71.94% Mismatches: 25
Query Match: 63.57% Indels: 2
DB: 3 Gaps: 0

US-09-817-199a-2 (1-223) x US-09-198-184-2 (1-1340)
QY 26 TyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPhe 45
DB 22 TACGACGTCGCCCTCAAGGTCATGCTGTGGGGACTCGGGTGTGGGGAAGACCTGTCTG 81
QY 46 Leu-IleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyII 65
DB 82 CTGGGTGCGATTCAAGGATGTGCTTTCTGGGGGACCTTCATCTCCACCGTAGC-AT 140
QY 65 eAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleIrpAs 85
DB 141 TGACTTCGGNACAAAGTTCTGGACGTGGATGTGTGAAGGTGAAGCTGCAGATGTGGGA 200
QY 85 pThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTrArgAspAlaGlnAl 105
DB 201 CACAGCTGGTCAGGAGCGGTTCCGACGTGTATCCCATGCTACTACCGGGATGCTCATGC 260
QY 105 aLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLe 125
DB 261 TCTGCTGCTCTTACGATGTCACCAAGGCTCTCTTTGACACATCATCCAGGCTGGCT 320
QY 125 uThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAl 145
DB 321 GACCGAGATCCACAGATACGCGCCAGCAGCGAGTGGCGCTCATGCTGTGGGGAACAAGGT 380
QY 145 aAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTy 165
DB 381 GGACTCTGCCATGACGCTGTGTGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGTA 440
QY 165 rGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLe 185
DB 441 TGGACTGCGCTTCATGGAGACGAGCGCCCAAGCGGCGCTCAACGTGGACCTTGGCTTAC 500
QY 185 uAlaIleAlaLysGluLeuLysTyrArgAlaLysHisGlnAlaAspGluProSerPheGl 205
DB 501 AGCCATACCAAGAGTTGAAGCAGCGCTCCATGAAGGCTCCGAGGAGCGCGCTTCCG 560
QY 205 nIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
DB 561 GCTGCATGATTACGTTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 606

RESULT 5
US-09-816-901-4
; Sequence 4, Application US/08916901
; Patent No. 5892012
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
```

```

; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,901
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0367 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 925 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LIVRUT04
; CLONE: 2514506
; US-08-916-901-4
;
Alignment Scores:
Pred. No.: 2.58e-54 Length: 925
Score: 470.00 Matches: 88
Percent Similarity: 64.41% Conservative: 55
Best Local Similarity: 39.64% Mismatches: 73
Query Match: 40.87% Indels: 6
DB: 2 Gaps: 3

US-09-817-199a-2 (1-223) x US-08-916-901-4 (1-925)
QY 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProCys 22
DB 9 GGAACGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 68
QY 23 SerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys 42
DB 69 AACCCCGAATATGACTACCTGTTTAAGCTGCTTTTGGTGGCGACTCAGCGGTGGGCAAG 128
QY 43 ThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr 62
DB 129 TCATGCTGCTCTCTGCGGTTTGTGTGATGACACGCTAC---ACAGAGAGCTACATCAGCAC 185
QY 63 ValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGln 82
DB 186 ATCGGGGTGGACTTCAAGATCCGAAACCATCGAGTGGATGGCAAAACTATCAAACTTCAG 245
QY 83 IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTrArgAsp 102
DB 246 ATCTGGGACACAGCGGCGGAGAACGTTCCGACCATCATCTCCAGTACTACCGGGGG 305
QY 103 AlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArg 122
DB 306 GCTCATGCGATCATCGTGGTGTATGAGCTCACTGACCAAGGANTCTCAGCCCAAGCTGAAG 365
QY 123 AlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGly 142
DB 366 CAGTGGCTGCAGGAGATTGACCGCTATGCCAGCGAGAGAGCTCAATAAGCTCTCTGGTGGC 425
QY 143 AsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAla 162
DB 426 AACAAAGCGACCTCACCCACCAAGAGGTTGGTGGACACACACACGACGCAAGGATTGCA 485
QY 163 ArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeu 182
```

```
Db 486 GACTCTCTGGGCATCCCTCTTGGAGACGAGCGCCCAAGAATGCCACCAATGTGCAGCAG 545
|||||
Qy 183 AlapheLeuAlaIleAlaLysGluLeuLysTyArgAlaGlyHisGlnAla----- 199
|||||: : : : : |||
Db 546 GCGTTCAATACCATGGCTGCTGAATCAAAAGCGGATGGGCGCTGGAGCAGCCTCTGGG 605
|||||: : : : : |||
Qy 200 ---AspGluProSerPheGlnIleArgAspTyValGluSerGlnLysLysArgSerSer 218
: : : : : |||
Db 606 GCGAGCGCGCCCAATCTCAAGATC---GACAGCACCCCTGTAAAGCGGCTGGCGGTGGC 662
|||||
Qy 219 CysCys 220
|||||
Db 663 TGTTC 668

RESULT 6
US-09-154-602-4
: Sequence 4, Application US/09154602
: Patent No. 6300472
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: APPLICANT: Lal, Preeti
: APPLICANT: Corley, Neil C.
: APPLICANT: Shah, Purvi
: TITLE OF INVENTION: RAB PROTEINS
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Dr.
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSeq for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/154,602
: FILING DATE:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/916,901
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0367 US
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: INFORMATION FOR SEQ ID NO: 4:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 925 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: LIVRUT04
: CLONE: 2514506
US-09-154-602-4

Alignment Scores:
Pred. No.: 2,58e-54 Length: 925
Score: 470.00 Matches: 88
Percent Similarity: 64.41% Conservative: 55
Best Local Similarity: 39.64% Mismatches: 73
Query Match: 40.87% Indels: 6
DB: 4 Gaps: 3

US-09-817-199a-2 (1-223) x US-09-154-602-4 (1-925)
Qy 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProCys 22
```

```
Db 9 GGAACGGAGCGGACAGCTGCACTGGAGCGACCGCGCGCGCGCGCCCATG 68
||||| |||
Qy 23 SerProSerTyArgLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys 42
|||||: : : : : |||
Db 69 AACCCCAATATGACTACCTGTTTAAGCTGCTTTTGTATGGGACTCAGGCGTGGCAAG 128
|||||: : : : : |||
Qy 43 ThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr 62
: : : : : |||
Db 129 TCATGCTGCTCCGCGGTTTGTCTGATGACACGTAC---ACAGAGAGCTACATCAGCACC 185
|||||: : : : : |||
Qy 63 ValGlyIleAspPheArgAsnLysValThrValAspGlyValArgValLysLeuGln 82
: : : : : |||
Db 186 ATCGGGGTGGACTTCAAGATCCGAACCATCGAGCTGGATGCGCAAACTATCAAACTTCAG 245
|||||: : : : : |||
Qy 83 IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyTyArgAsp 102
|||||: : : : : |||
Db 246 ATCTGGGACACAGCGGGCCAGGAACGGTTCGGGACCATCACTTCCAGCTACTACCGGGG 305
|||||: : : : : |||
Qy 103 AlaGlnAlaLeuLeuLeuTyArgPheAsnLysSerSerPheAspAsnIleArg 122
|||||: : : : : |||
Db 306 GCTCATGCGCATCATCGTGGTGTATGACGCTCACTGACCAAGGAATCTACGCCAAGTGAAG 365
|||||: : : : : |||
Qy 123 AlaTrpLeuThrGluIleHisGluTyArgAlaGlnArgAspValValIleMetLeuLeuGly 142
|||||: : : : : |||
Db 366 CAGTGGCTGCAGGAGATTGACCGCTATGCCAGCGAGAACGTCATAAGCTCTCTGTTGGC 425
|||||: : : : : |||
Qy 143 AsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAla 162
|||||: : : : : |||
Db 426 AACAAAGACGACCTCACCAAGAGGTGTGTGGACCAACACACACAGGAGTTTGCA 485
|||||: : : : : |||
Qy 163 ArgGluTyArgGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeu 182
|||||: : : : : |||
Db 486 GACTCTCTGGCATCCCTCTTGGAGACGAGCGCCCAAGAATGCCACCAATGTGCAGCAG 545
|||||: : : : : |||
Qy 183 AlaPheLeuAlaIleAlaLysGluLeuLysTyArgAlaGlyHisGlnAla----- 199
|||||: : : : : |||
Db 546 GCGTTCAATACCATGGCTGCTGAATCAAAAGCGGATGGGCGCTGGAGCAGCCTCTGGG 605
|||||: : : : : |||
Qy 200 ---AspGluProSerPheGlnIleArgAspTyValGluSerGlnLysLysArgSerSer 218
: : : : : |||
Db 606 GCGAGCGCGCCCAATCTCAAGATC---GACAGCACCCCTGTAAAGCGGCTGGCGGTGGC 662
|||||
Qy 219 CysCys 220
|||||
Db 663 TGTTC 668

RESULT 7
US-09-399-913-66
: Sequence 66, Application US/09399913
: Patent No. 6361971
: GENERAL INFORMATION:
: APPLICANT: Rhodes, Kenneth
: APPLICANT: Betty, Maria
: APPLICANT: Ling, Huai-Ping
: APPLICANT: An, Wenqian
: TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR
: FILE REFERENCE: MNI-070CP2
: CURRENT APPLICATION NUMBER: US/09/399,913
: CURRENT FILING DATE: 1999-09-21
: EARLIER APPLICATION NUMBER: USSN 60/110,277
: EARLIER FILING DATE: 1998-11-30
: EARLIER APPLICATION NUMBER: USSN 60/110,033
: EARLIER FILING DATE: 1998-11-25
: EARLIER APPLICATION NUMBER: USSN 60/109,333
: EARLIER FILING DATE: 1998-11-20
: EARLIER APPLICATION NUMBER: USSN 09/298,731
: EARLIER FILING DATE: 1999-04-23
: EARLIER APPLICATION NUMBER: USSN 09/350,614
: EARLIER FILING DATE: 1999-07-09
: EARLIER APPLICATION NUMBER: USSN 09/350,874
: EARLIER FILING DATE: 1999-07-09
: NUMBER OF SEQ ID NOS: 73
```

Thu Jan 16 16:15:56 2003

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 66
; LENGTH: 639
; TYPE: DNA
; ORGANISM: Rattus sp.
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(636)
US-09-399-913-66

Alignment Scores:
Pred. No.: 1,2e-51 Length: 639
Score: 448.50 Matches: 81
Percent Similarity: 72.4% Conservative: 40
Best Local Similarity: 48.50% Mismatches: 45
Query Match: 39.00% Indels: 1
DB: 4 Gaps: 1

US-09-817-199A-2 (1-223) x US-09-399-913-66 (1-639)

QY 25 SerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCys 44
Db 4 GCCTAGCCCTATCTCTCAAGTACATCATCGCGGACACAGGTGTGGTAAATCGTGC 63
QY 45 PheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGly 64
Db 64 TTATTGCTACAGTTTACAGACAGAGGTTT--CAGCCGGTGCATGACCTCACAAATGCT 120
QY 65 IleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrp 84
Db 121 GTAGAGTTTGGTCTCGAATGATACCAATGATGGGAAACAGATAAACTCCAGATCTGG 180
QY 85 AspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgspAlaGln 104
Db 181 GATACAGCAGGAGGAGTCTTCTTCATCACAAGTGCATATTACAGAGTGCAGCG 240
QY 105 AlaLeuLeuLeuTyrAspIleThrAsnLysSerPheAspAsnIleArgAlaTrp 124
Db 241 GGGCTTTACTAGTATGATATACAGAGGAGACAGCTTCAACACCTGACAACTGG 300
QY 125 LeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLys 144
Db 301 TTAGAAGACGCCGTCAGCATCCCAATTCACATGTCATCATGCTTATTGGAAATAA 360
QY 145 AlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGlu 164
Db 361 AGTGACTTAGAATCTAGGAGAGAGTGAAGAGAGAGAGTGAAGCTTTTGACACGAG 420
QY 165 TyrGlyValPropheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPhe 184
Db 421 CATGGACTTATCTTCATGGAACCTCTGCCAAGACTGCTTCTTAATGTAGAGAGGCATTT 480
QY 185 LeuAlaIleAlaLysGluLeu 191
Db 481 ATTAACACAGCAAGAAAT 501

RESULT 8
US-08-888-077A-28
; Sequence 28, Application US/08888077A
; Patent No. 6020143
; GENERAL INFORMATION:
; APPLICANT: ST. GEORGE-HYSLOP, PETER H
; APPLICANT: ROMMENS, JOHANNA M
; APPLICANT: FRASER, PAUL E
; TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
; TO ALZHEIMER'S DISEASE AND USES THEREFOR.
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK
; STREET: 600 SOUTH AVENUE WEST
; CITY: WESTFIELD
; STATE: NJ
; COUNTRY: USA

ZIP: 07090-1497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/888,077A
FILING DATE: 03-JUL-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/592,541
FILING DATE: 26-JAN-1996
ATTORNEY/AGENT INFORMATION:
NAME: PALISI, THOMAS M
REGISTRATION NUMBER: 36,629
REFERENCE/DOCKET NUMBER: SCHERING 3.0-017 CIP CIP IV
TELEPHONE: (908) 654-5000
TELEFAX: (908) 654-7866
INFORMATION FOR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 970 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: misc-feature
LOCATION: 1..970
OTHER INFORMATION: /note="Y2H9"
US-08-888-077A-28

Alignment Scores:
Pred. No.: 1,05e-42 Length: 970
Score: 385.00 Matches: 86
Percent Similarity: 57.87% Conservative: 39
Best Local Similarity: 39.81% Mismatches: 76
Query Match: 33.48% Indels: 16
DB: 3 Gaps: 4

US-09-817-199A-2 (1-223) x US-08-888-077A-28 (1-970)

QY 7 AlaValAlaThrArgAspGlyGluAlaProGluArgSerProProCysSerProSerTyr 26
Db 51 GCAATGGGACCCGCCGACGACGAG-----TAC 77
QY 27 AspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeu 46
Db 78 GACTACTCTTAAAGTTGCTTATTGGAGATTCTGGTTGGAAAGAGTAATCTCCTG 137
QY 47 IleGlnPheLysAspGlyAlaPhe---LeuSerGlyThrPheIleAlaThrValGlyIle 65
Db 138 TCTCGATTACTCGAAATGAGTTTAATCTGGAAGCAAG-----AGCACCATTTGGAGTA 191
QY 66 AspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrpAsp 85
Db 192 GAGTTTGCACAAAGACATCCAGGTGTATGGGAAACAAATAAAGCCAGATATGGGAC 251
QY 86 ThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAla 105
Db 252 ACAGCAGGCGCAGGCGATATCGAGCTATAACATCAGCATATTATCGTGAGCTGAGGT 311
QY 106 LeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeu 125
Db 312 GCCTATTGTTTATGACATTTGCTAAACATCTCAATATGATAAATGTAGAGCGATGCTG 371
QY 126 ThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAla 145
Db 372 AAGAAGCTAGAGATCATGCTGATAGTAACATTTGTTATCATGCTTGTGGCAATAAGAGT 431
QY 146 AspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyr 165
Db 432 GATCTACGTCTATCTCAGGCGGAGTTCCTACAGATGAAGCAAGAGCTTTTTCAGAAAGAAAT 491


```
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/773,423
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0183 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 847 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: Consensus
; CLONE: Consensus
; US-08-773-423-4
;
; Alignment Scores:
; Pred. No.: 2,92e-39 Length: 847
; Score: 359.00 Matches: 77
; Percent Similarity: 56.59% Conservative: 39
; Best Local Similarity: 37.56% Mismatches: 79
; Query Match: 31.22% Indels: 10
; DB: 2 Gaps: 2
;
; US-09-817-199a-2 (1-223) x US-08-773-423-4 (1-847)
;
; Qy 26 TyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPhe 45
; |||||
; 95 TATAACTTTGCTTCAAGTGGTGTGATCGCGGAATCAGTGTGGGAAGACCAATCTA 154
;
; Qy 46 LeulleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIle 65
; |||||
; 155 CTCCTCCGATTCACGCGCAATGAGTTC---AGCCACGACAGCCGCCACCATCGGGGTT 211
;
; Qy 66 AspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrpAsp 85
; |||||
; 212 GAGTTCCTCCACCCGACTGTGATGTTGGCACCCCTGCTGTCAAGGCTCAGATCTGGGAC 271
;
; Qy 86 ThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrArgAspAlaGlnAla 105
; |||||
; 272 ACAGCTGGCTGGAGCGGTACCGACCATCACCTCGCGTACTATCGTGTGCGAGTGGG 331
;
; Qy 106 LeulleLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeu 125
; |||||
; 332 GCCCTCTGCTGGTGTGACCTTAACCAAGACACGACCATGCTGTGCTGGGACGATGCTG 391
;
; Qy 126 ThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLysAla 145
; |||||
; 392 AAGGAGCTCTATGACCATGCTGAAGCCACGATCGTGGTCATGCTGCTGGTGAACAAAGT 451
;
; Qy 146 AspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyr 165
; |||||
; 452 GACCTCAGCCAGGCGCGGAGTGCACCGACGAGCCGAGGCGGAGTGTGCTGAAACAAAT 511
;
; Qy 166 GlyValProPheLeuGluTyrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeu 185
; |||||
; 512 GGACGTCTCTCTCGGACCATCTGACCCCTGGACTCTACCACTGTTGAGCTAGCCTTTCAG 571
;
; Qy 186 AlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluPro----- 202
; |||||
; 572 ACTGTCCTGAAGAATACTTTTCGGAAGGTGTCGAAGCAGACAGACAGCATCGGACC 631
;
; Qy 203 -----SerPheGlnIleArgAspTyrValGluSerGlnLysLysArg 216
;
; Db 632 AATGCCATCACTCTGGCAGTGCACGAGTCCCGAGGNTGGACAGGAGCCCTGGCCCTGGGAGAGAGG 691
;
; Qy 217 SerSerCysCysSer 221
; |||||
; Db 692 GCCTGTTGCATCAGC 706
;
; RESULT 11
; US-08-773-423-6
; Sequence 6, Application US/08773423
; Patent No. 5869291
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goli, Surya K.
; APPLICANT: Bandman, Olga
; TITLE OF INVENTION: NOVEL RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/773,423
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0183 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1175 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: Consensus
; CLONE: Consensus
; US-08-773-423-6
;
; Alignment Scores:
; Pred. No.: 2,45e-31 Length: 1175
; Score: 302.50 Matches: 73
; Percent Similarity: 53.54% Conservative: 33
; Best Local Similarity: 36.87% Mismatches: 79
; Query Match: 26.30% Indels: 13
; DB: 6 Gaps: 6
;
; US-09-817-199a-2 (1-223) x US-08-773-423-6 (1-1175)
;
; Qy 31 LysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPheLys 50
; |||||
; Db 111 AAGTAATTCCTCTGGAGATGGTGGAGATTCACCTTATGAACAGATATGTA 170
;
; Qy 51 AspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsnLys 70
; |||||
; Db 171 ACTAATAAGTTTGTATACCCAGCTCTTC---CATACAATAGTGTGGAATTTTAAATAAA 227
```



```
Qy 71 ValValThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGlu 90
Db 228 GATTGGAAGTGGATGACATTTTACCATGACAGATTTGGGACACGGCAGGTGACAG 287
Qy 91 ArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeuTyr 110
Db 288 CGATTCCGAAGCCCTGAGGACACCATTTTACAGAGGTTCTGACTGCTGCTGCTTACTTTT 347
Qy 111 AspileThrAsnLysSerPheAspAsnIleArgAlaTrpLeuThrGluIleHisGlu 130
Db 348 AGTGTCATGATTCACAAAGCTTCCAGAACTTAAGTAACTGGAAGAAGAAATTCATATAT 407
Qy 131 TyrAlaGln-----ArgAspValValIleMetLeuLeuGlyAsnLysAlaAsp 146
Db 408 TATGCACATGTGAAGAGCCCTGAGAGCTTCTCTTTTGTGATTCCTGGCTAACAAGATTGAC 467
Qy 147 MetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGly 166
Db 468 ATA---ASCGAAGCGGAGGTGCTCTACAGAAGAGCCCAAGCTTGGTGCAGGGAACAAGGC 524
Qy 167 ---ValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeu 185
Db 525 GACTATCTTATTTTGAACAAGTGAAGAAGATCCCAAGATGCGCAGCAGCTTTGAG 584
Qy 186 AlaIleAlaLysGluLeu-----LysTyrArgAlaGlyHisGlnAlaAspGluPro 202
Db 585 GAAGCGCTTCGAAGAGTTCTTGCTACCGAGGATAGGTACAGATCATTTGATTACACACAGAC 644
Qy 203 SerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 645 ACAGTCAATCTTCAC-----CGAAAGCCCAAGCCTAGCTCATCTTGTGTGT 689
RESULT 12
US-08-741-411-6
; Sequence 6, Application US/08741411
; Patent No. 6124116
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL RAB PROTEINS
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/741,411
; FILING DATE: Herewith
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0139 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 820 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
```

```
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY: Consensus
; CLONE: 741-411-6
US-08-741-411-6
Alignment Scores:
Pred. No.: 1,05e-30 Length: 820
Score: 296.00 Matches: 71
Percent Similarity: 49.52% Conservative: 32
Best Local Similarity: 34.13% Mismatches: 71
Query Match: 25.74% Indels: 34
DB: 3 Gaps: 4
US-09-817-199a-2 (1-223) x US-08-741-411-6 (1-820)
Qy 20 ProProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGly 39
Db 159 CCCAGGGTGGCCCCCAGCCAGCCCGCTGTGTTCAAGCTGGTTCTCCTGGGAAGTGGCTCC 218
Qy 40 ValGlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPhe 59
Db 219 GTGGGTGCG----- 227
Qy 60 IleAlaThrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgVal 79
Db 228 -----TTCTTCAAAAGGAGGTGGATGGTGGGCCACCTCTCTG 266
Qy 80 LysLeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyr 99
Db 267 AAGCTTGAGATCTGGGACACAGCTGGCCAGGAGAAGTACCACAGCGTCTGCCACCTCTAC 326
Qy 100 TyrArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAsp 119
Db 327 TTCAGGGGTGCCAACGCTGCTTCTGTGTACGACATCACACAGGAGGATTCCTCTCTC 386
Qy 120 AsnIleArgAlaTrpLeuThrGluIleHisGluTyrAlaGln---ArgAspValIle 138
Db 387 AAGCTCAGCAGTGGCTGAGGAGCCTGGAGGAGGAGTGCACCCAGGAAGTCTCTGTG 446
Qy 139 MetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGly 158
Db 447 ATGCTGGTGGGCAACAAGACGGACCTCAGCCAGGAGGAGGAGTCCACCTTCAGGAAGG 506
Qy 159 GluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMet 178
Db 507 AAGAGGTTCGCCGACAGCCAGAGTTGCTGTTCATGGAACCTTCGGCCAACTCAACCCAC 566
Qy 179 AsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGln 198
Db 567 CAGGTGCGGAGGTGTTCAATACAGTGGCCCAAGAGCTACTGCAGAGA----- 614
Qy 199 AlaAspGluProSerPheGlnIleArgAspTyrVal-----GluSerGln 213
Db 615 AGCCAGGAGGAGGCGCAGGCTCTACGGGGGGATGACAGCTGTGGCTCTCAACAAGGGGCC 674
Qy 214 LysLysArgSerSerCysSer 221
Db 675 GCGAGGCGAGCCAAATGCTGCGCC 698
RESULT 13
US-09-075-454-11
; Sequence 11, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Eatra, Sajeev
```

APPLICANT: Baughn, Mariah R.
TITLE OF INVENTION: RAS PROTEINS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

Db	753	GAGGAGCTCAAGCCATCATCTGTCTTCAACCTCAATGATGTGGCATCTCTCGAACAATA	812
Qy	121	leArgAlaTrpLeuThrGlu-----lleHisGluTyrAlaGlnArgAspValValIleMetL	140
Db	813	CCAAGCAGTGTGGCTGGCCGATGCCCTGAAGAGGAATGAACCTTCAGCTGTGCTCTCTTC	872
Qy	140	eulLeuGlyAsnLysAlaAspMetSer-----SerGluArgValIleArgSerGluAspG	158
Db	873	TTGTAGGTTCCAAGAGGATCTCAGTATACCCCTGCCTCAGTATGCCTGATGGAGAAGACG	932
Qy	158	lyGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaIysThrGlyM	178
Db	933	CCCTCCAGGTGGCCAGAGATGAAGGCTGAGTACTGGGCAGTCTCATCTCTCACTGGTG	992
Qy	178	etAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisG	198
Db	993	AGAATGTCCGAGAAATCTTCTTCGCTGTGGCA--GCACTGACCTTTGAGGCCAATGTGC	1049
Qy	198	lnAlaAsp-----GluProSerPheGlnIleArgAsp-----	208
Db	1050	TGGCTGAGCTGGAAATCGGGGGCTCGACGATTTGGGATTTCTTCGCATCAACACGTG	1109
Qy	209	-----TyrValGluSerGlnLysArgSerSerCysCys	220
Db	1110	ATGACAGCAACCTCTACCTAACTGCCAGCAAGAAAGAACGCCACATCTTGC	1159

RESULT 14
US-09-075-454-8
; Sequence 8, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Patra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1172 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

```

; IDLEX:
; INFORMATION FOR SEQ ID NO: 11:
;-----
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 1533 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
; IMMEDIATE SOURCE:
;     LIBRARY: PROSTUT08
;     CLONE: 1651593
;
; US-09-075-454-11

```

```

US-09-817-199A-2 (1-223) x US-09-075-454-11 (1-1533)

Qy 2 ThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro 21
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 462 ACGGCACA-----AAGACTTCACCCCGCGTCACTGCCTCCAGGAGCACCGGA 515
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

Qy 22 CySerProSerTyrAspLeu--ThrGlyLysValMetLeuLeuGlyAspThrGlyValG 41
:|||| :|||| :|||| :|||| :|||| :|||| :|||| :|||| :|||| :||||
Db 516 CAGCACCGTGGCAGATTTAAGATCTCCAAGGTCAATTGTGTGGGGGACCTGTCGGTGG 575
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

Qy 41 LysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleA 61
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 576 GGAAGACTTCGCTCATTAATAGGTTCTGCAAGACACACTTT---GATAAGATTACAAGG 632
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

Qy 61 IatThrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysL 81
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 633 CCACCATGGAGTGGACTTCGAGATGGAACGATTTGAGTGTCTGGGCAATTCCTTCAGTT 692
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

Qy 81 euGlnIleTrpAspThrAlaGlyGlnIleuArgPheArgSerValThrHisAlaTyTrTyA 101
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 693 TGCAGCTTTGGGATACCGCTGGGCAGGAGAGGTTTCAAAATGCATTGCATCAACCTACTATA 752
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

Qy 101 rgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAsnI 121
||||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

```

```
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: KIDN0T05
; CLONE: 627565
; US-09-075-454-8

Alignment Scores:
Pred. No.:      8,98e-30      Length:      1172
Score:          291.00      Matches:      76
Percent Similarity: 53.78%      Conservative: 52
Best Local Similarity: 31.93%      Mismatches: 86
Query Match:      25.30%      Indels:    24
DB:               4          Gaps:         8

US-09-817-199a-2 (1-223) x US-09-075-454-8 (1-1172)
QY 2 ThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro 21
Db 105 ACGGCGACA-----AAGACTTCCACCCCGCGTCACTCGCGCTGCAGGAGCACCGGA 158
QY 22 CysSerProSerTyrAspLeu--ThrGlyLysValMetLeuLeuGlyAspThrGlyValG 41
Db 159 CAGCACCG---TGGGATTTAAGATCCCAAGGTCATGTGGTGGGGAGCTGTGCGGTGG 215
QY 41 lYlYsThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleA 61
Db 216 GGAAGACTTGCCTCATTAATAGGTTCTGCAAGACACCTTT---GATAAGAAATTACAAG 272
QY 61 lathrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysL 81
Db 273 CCACCATTTGGAGTGGACTTCGAGATGAAGCATTTGAGGTGCTGGGCATTCCTTCAGTT 332
QY 81 euGlnIleTyrAspThrAlaGlnGluArgPheArgSerValThrHisAlaTyrTyrA 101
Db 333 TGCAGCTTTGGGATACCGCTGGGCGAGAGAGGTTCAATGCATTCGATCAACCTACTATA 392
QY 101 rGAspAlaGlnAlaLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnI 121
Db 393 GAGGAGCTCAAGCCATCATCTATTGCTTCAACCTGAATGATGTGGCATCTCGAACAATA 452
QY 121 leArgAlaTyrLeuThrGlu---IleHisGluTyrAlaGlnArgAspValIleMetL 140
Db 453 CCAGCAGTGGCTGGCGAGTCCCTGAAGGAGATGACCCCTTCCAGTGTGCTTCTCTCC 512
QY 140 euLeuGlyAsnLysAlaAspMetSer-----SerGluArgValIleArgSerGluAspG 158
Db 513 TTGTAGTTTCCAGAGAGACTCTGATACCCCTGCTCAGTATGCGCTGATGGAGAAAGCG 572
QY 158 lYlGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyM 178
Db 573 CCCTCCAGGTGGCCAGGAGATGAAGCTCAGTACTGGCAGTCTCATCTCTCACTCGTG 632
QY 178 etAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisG 198
Db 633 AGAATGTCGAGAAATTTCTTCTCGTGGCA---GCACCTGACCTTTCAGGCCAATGTGC 689
QY 198 lNAlaAsp-----GluProSerPheGlnIleArgAsp----- 208
Db 690 TGGCTGAGCTGGAGAAATCGGGGCTCGACGCAATGGGGATGTGTCCGCATCAACAGTG 749
QY 209 -----TyrValIleSerGlnLysLysArgSerSerCysCys 220
Db 750 ATGACACCAACCTCTACTCTAAGTCCAGCAAGAGAGAGCCCATGTGTC 799

RESULT 15
US-08-741-411-2
; Sequence 2, Application US/08741411
; Patent No. 6124116
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Au-Young, Janice
; TITLE OF INVENTION: NOVEL RAB PROTEINS
; NUMBER OF SEQUENCES: 12
```

```

QY 157 AspGlyGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThr 176
Db 573 GATGCTAAGGAATACGCTGAATCCATAGTGCATCGTGGTTGAGACAAAGTGCAAAAAAT 632
QY 177 GlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGly 196
Db 633 GCTATTAAATATCGAAGAGCTCTTTCAAGGAATCAGCCGCCAGATCCACCCTTGGACCCC 692
QY 197 HisGln-----AlaAspGluProSerPheGln 205
Db 693 CATGAAATGGAAACAATGGAACAATCAAAAGTTGAGAGCCACCAATGCAA 743

```

Search completed: January 16, 2003, 06:38:41
Job time : 51 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: January 16, 2003, 06:37:36 ; Search time 53 Seconds

(without alignments)
1876.012 Million cell updates/sec

Title: US-09-817-199A-2

Perfect score: 1150

Sequence: 1 MTCTPGAVATRDGEAPERSP.....FOIRDYVESQKKRSSCCSFM 223

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 393868 seqs, 222934149 residues

Total number of hits satisfying chosen parameters: 787736

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+p2n.model -DEV=xlh
-O=/cgn2_1/USPTO.spool/US09817199/runat_13012003_120312_23055/app_query.fasta_1.391
-DB=Published-Applications_NA -OFMT=fastap -SUFFIX=rnpb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCLALIGN=200 -THR_SCORE=pct -THR_MAX=100
-THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -SCORE=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09817199 -RCGN_1_1_24 @runat_13012003_120312_23055
-NCPU=6 -ICPU=3 -NO_XLPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications_NA: *
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq: *
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq: *
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq: *
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq: *
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq: *
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq: *
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq: *
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq: *
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq: *
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq: *
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq: *
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq: *
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq: *
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1150	100.0	2674	10	US-09-817-199A-1
2	1145	99.6	1116	10	US-09-794-257-13
3	1144	99.5	2623	9	US-09-764-868-71
4	1140	99.1	875	12	US-10-051-986-10

Alignment Scores:					
Pred. No.:	2.48e-137	Length:	2674		
Score:	1150.00	Matches:	223		
Percent Similarity:	100.00%	Conservative:	0		
Best Local Similarity:	100.00%	Mismatches:	0		
Query Match:	100.00%	Indels:	0		
DB:	10	Gaps:	0		

ALIGNMENTS

RESULT 1

US-09-817-199A-1
; Sequence 1, Application US/09817199A

; Patent No. US20020142380A1

; GENERAL INFORMATION:

; APPLICANT: SHAO, Wei et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS, THESE HUMAN RAS-LIKE NUCLEIC ACID MOLECULES ENCODING, THESE HUMAN RAS-LIKE PROTEINS, AND USES THEREOF

; TITLE OF INVENTION: CLO01187

; FILE REFERENCE: CLO01187

; CURRENT APPLICATION NUMBER: US/09/817.199A

; NUMBER OF SEQ ID NOS: 25

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 1

; LENGTH: 2674

; TYPE: DNA

; ORGANISM: Human

US-09-817-199A-1

Sequence 493, App
Sequence 15, Appl
Sequence 1811, Ap
Sequence 75, Appl
Sequence 879, App
Sequence 885, App
Sequence 894, App
Sequence 896, App
Sequence 529, App
Sequence 631, App
Sequence 9, Appl
Sequence 7, Appl
Sequence 836, App
Sequence 832, App
Sequence 91, Appl
Sequence 4, Appl
Sequence 66, Appl
Sequence 88, Appl
Sequence 1, Appl
Sequence 488, App
Sequence 507, App
Sequence 478, App
Sequence 487, App
Sequence 340, App
Sequence 487, App
Sequence 3393, Ap
Sequence 1461, Ap
Sequence 652, App
Sequence 2113, Ap
Sequence 1, Appl
Sequence 1426, Ap
Sequence 794, App
Sequence 563, App
Sequence 49, Appl
Sequence 64, Appl
Sequence 78, Appl
Sequence 499, App
Sequence 646, App
Sequence 12118, A
Sequence 374, App
Sequence 6, Appl

US-09-817-199A-2 (1-223) X US-09-817-199A-1 (1-2674)

Qy	1	MetThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerPro	20
Db	42	ATGACGGGCACGCCAGCGCGGTGGCCACCGGGATGGCGAGGCCCGCAGCGCTCCCCG	101
Qy	21	ProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyVal	40
Db	102	CCCTGCGAGTCGGAGCTACGACCTCACGGGCAAGTGATGCTTCTGGGAGACACAGCGGC	161
Qy	41	GlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIle	60
Db	162	GGCAAAACATGTTTCCTGATCCAAATTCAAAGACGGGCGCTTCGTCCGGAACCTTCATA	221
Qy	61	AlaThrValGlyIleAspPheArgAsnLysValThrValAspGlyValArgValLys	80
Db	222	GCCACCGTCGGCATAGACTTCAGGAACAAGTGGTGATGTGATGGCGTGAGAGTGAAG	281
Qy	81	LeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyr	100
Db	282	CTGCAGATCTGGACACCGCTGGCGCAGACGGTTCGGAAGCGTCACCCATGCTTATTAC	341
Qy	101	ArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsn	120
Db	342	AGAGATGCTCAGGCGCTTGCTTCTGCTGATGACATCACCAACAAATCTCTTTTCGACAC	401
Qy	121	IleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeu	140
Db	402	ATCAGGGCGCTGGCHCATGAGATTCAATGAGTATGCCCCAGAGGACGTGGTGATCATCTG	461
Qy	141	LeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThr	160
Db	462	CTAGCAACAAGCGGATATGACGAGCGAAAGATGATCCGTCCGGAAGACGGAGAGACC	521
Qy	161	LeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnVal	180
Db	522	TGCGCCAGGGAGTAGCGGTGTTCCCTTCTGGAGACACGCGCCAAGACTGGCATGAATGTG	581
Qy	181	GluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAsp	200
Db	582	GAGTTAGCTTCTGCGCATCGCAAGAACTGAATACCGGGCGGGCATCAGCGCGAT	641
Qy	201	GluProSerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys	220
Db	642	GAGCCCGAGCTTCCAGATCCGAGACTATGTAGTGCCCAAGAAAGCGCTCCAGCTGCTGC	701
Qy	221	SerPheMet	223
Db	702	TCCTTTCATG	710

RESULT 2
 US-09-794-257-13
 ; Sequence 13, Application us/09794257
 ; Patent NO. US2002000980A1

RESULT. T 2

```

US-09-794-257-13
; Sequence 13, Application US/09794257
; Patent No. US20020009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804Alel
; TITLE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 1116
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (124)...(699)
; US-09-794-257-13

```

```
; LENGTH: 2623
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-868-71

Alignment Scores:
Pred. No.: 1,41e-136 Length: 2623
Score: 1144.00 Matches: 222
Percent Similarity: 99.55% Conservatives: 0
Best Local Similarity: 99.55% Mismatches: 1
Query Match: 99.48% Indels: 0
DB: 9 Gaps: 0

US-09-817-199a-2 (1-223) x US-09-764-868-71 (1-2623)

QY 1 MetThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerPro 20
Db 12 ATACGGGACGACGAGCGCGTTCACCCGGATGGCGAGGCCCGGAGCGCTCCCGG 71

QY 21 ProCysSerProSerThrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyVal 40
Db 72 CCCTGCAGTCCGAGCTACGACCTCAGCGGCAAGGTGATGCTTCTGGGAGACACAGGGGTC 131

QY 41 GlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIle 60
Db 132 GGCACCAACATGTTCTCTGATCCAAATTCACAGACGGGCGCTTCCTGTCCGGAACCTTCATA 191

QY 61 AlaThrValGlyLysPheAspPheArgAsnLysValValThrValAspGlyValArgValLys 80
Db 192 GCCACCTCGGCATAGACTTCACACCAAGGTGCTGACTGTGGATGGCGTGAGAGTGAAG 251

QY 81 LeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyr 100
Db 252 CTCAGATCTGGGACACCGCTGGCGAGGAACGGTTCGGAAGCGTCACCCATGCTATTATC 311

QY 101 ArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsn 120
Db 312 AGAGATGCTCAGGCGCTTGCTCTGCTGTATGACATCACCAACAAATCTCTTCGACAAC 371

QY 121 IleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeu 140
Db 372 ATACGGCGCTGGCTCACTGAGATTCATGATGATGCCAGAGGACGCTGGTGTATCATCTG 431

QY 141 LeuGlyAsnLysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThr 160
Db 432 CTAGGCAACAAGCGGATATGACGAGCGAAGAGTATGATCCGTAAGACGGAGAGACC 491

QY 161 LeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnVal 180
Db 492 TTGGCCAGGGAGTACGGTGTTCCTCTCGAGACACCGCCCAAGACTGGCATGAATGTG 551

QY 181 GluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAsp 200
Db 552 GAGTAGCTTTCTGGCCATCGCCAGGAAGTAAATACCGCGCGGCGCATCAGCGGAT 611

QY 201 GluProSerPheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
Db 612 GAGCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAAGAAAGCGCTCCAGCTGCTGC 671

QY 221 SerPheMet 223
Db 672 TCCTTCATG 680

RESULT 4
US-10-051-986-10
; Sequence 10, Application US/10051986
; Patent No. US20020146770A1
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; Tang, Y. Tom
; Lal, Preeti
; Guegler, Karl J.
; Corley, Neil C.
```

```
; Patterson, Chandra
; Batra, Sajeev
; Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/051,986
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01
; CLONE: 1528559
; SEQUENCE DESCRIPTION: SEQ ID NO: 10 :
US-10-051-986-10

Alignment Scores:
Pred. No.: 9,11e-137 Length: 875
Score: 1140.00 Matches: 221
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.13% Indels: 0
DB: 12 Gaps: 0

US-09-817-199a-2 (1-223) x US-10-051-986-10 (1-875)

QY 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProCys 22
Db 3 GGCACGCGACGCGCGTTCACCCGGATGGCGAGGCCCGGAGCGCTCCCGCCCTGC 62

QY 23 SerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLys 42
Db 63 AGTCCGAGCTACGACCTCAGCGGCAAGGTGATGCTTCTGGGAGACACAGCGCTCGCAAA 122

QY 43 ThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThr 62
Db 123 ACATGTTTCTGTATCCAAATTCAGAGACGGGGCTTCTGTCCGGAACCTTCATAGCCACC 182

QY 63 ValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGln 82
Db 183 GTCGGCATAGACTCAGGAACAGGTGCTGACTGTGATGGCTGAGAGTGAAGCTCAG 242

QY 83 IleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAsp 102
Db 243 ATCTGGGACACCGCTGGGCGAGGAACGGTTCGGAAGCGCTCACCCATGCTTATTACAGAGAT 302
```


Db 1 ATGCTTCTGGGAGACACAGCGCTGGCAAAACATGTTTCTGTATCCAAATCAAGACGGG 60
Qy 53 AlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsnLysValVal 72
Db 61 GCCTTCTGTCGGGAACCTTCATAGCCACCGTCGGCATAGACTTCAGAACACAGGTGGT 120
Qy 73 ThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGluArgPhe 92
Db 121 ACTGTGATGGCTGTAGAGTGAAGCTCAGATCTGGACACCGCTGGCGAGGAAGGTTTC 180
Qy 93 ArgSerValThrHisAlaTyrTrpArgAspAlaGlnAlaLeuLeuLeuLeuLeuLeu 112
Db 181 CGAAGCGCTACCCATGCTTATACAGAGATGCTCAGGCGCTTGTCTTCTGTATGACATC 240
Qy 113 ThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeuThrGluIleHisGluTyrAla 132
Db 241 ACCAACAAATCTTCTTCGACACATCAGGCGCTGGCTCACTGAGATTCATGATGCC 300
Qy 133 GlnArgAspValValIleMetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgVal 152
Db 301 CAGAGGACCTGTGTATCATGCTGCTAGGCAACAAGCGGATATGAGCAGCGAAAGAGTG 360
Qy 153 IleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGlyValPropheLeuGluThr 172
Db 361 ATCCGTTCCGAAGACGAGAGACTTGGCCAGGAGTACGGTGTCTTCTTCTTGGAGACC 420
Qy 173 SerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaLysGluLeuLys 192
Db 421 AGCGCCAAAGCTGGCATGATGGAGTGTAGCCTTCTGCGCATCGCCCAAGGAACTGAAA 480
Qy 193 TyrArgAlaGlyHisGlnAlaAspGluProSerPheGlnIleArgAspTyrValGluSer 212
Db 481 TACCGGCGCGGCATCAGCGGATGAGCCAGCTTCCAGATCCGAGACTATGAGAGTCC 540
Qy 213 GlnLysLysArgSerSerCysCysSerPheMet 223
Db 541 CAGAAGAAGCGCTCCAGCTGCTGCTCTCATG 573

RESULT 7
US-09-867-550-1811

; Sequence 1811, Application US/09867550
; Patent No. US20020082206A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fuad,
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1 Polynucleotides from Atherogenic Cells and
; TITLE OF INVENTION: Thereby
; FILE REFERENCE: 21402-013 (Cura-313)
; CURRENT APPLICATION NUMBER: US/09/867,550
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: USSN 60/208,427
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1811
; LENGTH: 447
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)
; OTHER INFORMATION: Wherein n is one of a or t or c or g

Alignment Scores:
Pred. No.: 2,08e-83 Length: 447
Score: 720.00 Matches: 138
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 62.61% Indels: 0

DB: 10 Gaps: 0
US-09-817-199a-2 (1-223) x US-09-867-550-1811 (1-447)
Qy 1 MetThrGlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerPro 20
Db 34 ATGACGGGACGCGCCAGCGCGCTTGCACCGCGATGGCGAGGCCCGCGAGCGCTCCCG 93
Qy 21 ProCysSerProSerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyVal 40
Db 94 CCCTGCACTCCGAGCTACGACCTCAGCGCAAGGTGATGCTTCTGGGAGACACAGGGCTC 153
Qy 41 GlyLysThrCysPheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIle 60
Db 154 GGCAAAACATGTTTCTGTATCCAAATTCAGAGACGGGCGCTTCTCTGCGGAACCTTCATA 213
Qy 61 AlaThrValGlyIleAspPheArgAsnLysValValThrValAspGlyValArgValLys 80
Db 214 GCCACCGCTGGCATAGACTTCAGGAACAAGGTGGTGACTGTGGATGGCGTGAGAGTGAAG 273
Qy 81 LeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyr 100
Db 274 CTGAGATCTGGGACACCGCTGGCGCAGAACGGTTCGAAAGCGTCAACCATCTTCTTCGACAAC 333
Qy 101 ArgAspAlaGlnAlaLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 120
Db 334 AGAGATCTCAGGCGCTTCTCTCTGTATGACATCACCACAATCTTCTTTCGACAAC 393
Qy 121 IleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValValIle 138
Db 394 ATCAGGCGCTGGCTCAGTGTATGAGTATGCCAGAGGGACGTGGTGATC 447

RESULT 8

US-09-764-868-75
; Sequence 75, Application US/09764868
; Patent No. US20020168711A1

; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PTZ32
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 75
; LENGTH: 964
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (806)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (898)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (918)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (924)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (952)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (959)
; OTHER INFORMATION: n equals a,t,g, or c

US-09-764-868-75

Alignment Scores:
Pred. No.: 3.19e-59 Length: 964
Score: 535.00 Matches: 98

Percent Similarity: 85.40% Conservative: 19
Best Local Similarity: 71.53% Mismatches: 20
Query Match: 46.52% Indels: 0
DB: 9 Gaps: 0

US-09-817-199a-2 (1-223) x US-09-764-868-75 (1-964)

```
QY 84 TTPAspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAla 103
DB 3 TGGCACACAGCTGCTCAGAGAGCGGTTCAGCTGTTACCATGCTACTACCGGATGCT 62
QY 104 GlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerPheAspAsnIleArgAla 123
DB 63 CATGCTCTGCTGCTCTACGATGTCACCAACAGGCGCTCTTTGACAAATCCAGGCC 122
QY 124 TrpLeuThrGluIleHisGluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsn 143
DB 123 TGGCTACCGAGATCCAGCAGTACGCCACGACGCTGCTGCTGGGGAAC 182
QY 144 LysAlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArg 163
DB 183 AAGCTGGACTCTCCCATGAGCTGTGGTGAAGAGGAGGAGCGGAGAGCTGGGCCAAG 242
QY 164 GluTyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAla 183
DB 243 GAGTATGGACTGCTCTTATGGAGACGAGCCCAAGACGGGCTCAACGTGGACTTGGCC 302
QY 184 PheLeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAlaAspGluProSer 203
DB 303 TTCACGACCATCAAGAGGAGTTGAAGCAGCGCTCCATGAGGCTCCACGAGCGCGCC 362
QY 204 PheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCys 220
DB 363 TTCGGCTGCATGATTAGCTTAAGAGGAGGCTCGAGGGGCTCCCTGCTGC 413
```

RESULT 9

```
US-09-834-975-879
; Sequence 879, Application US/09834975
; Patent No. US20020110815A1
; GENERAL INFORMATION:
; APPLICANT: Brown, Jeffrey
; APPLICANT: Bolt, Andrew
; APPLICANT: Van Huffel, Christophe
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS AND METHODS
; TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF HUMAN CANCERS
; FILE REFERENCE: MRI-016B
; CURRENT APPLICATION NUMBER: US/09/834,975
; CURRENT FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/197,538
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 1046
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 879
; LENGTH: 2497
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(2497)
; OTHER INFORMATION: n = A,T,C or G
US-09-834-975-879
```

Alignment Scores:

Pred. No.:	1,33e-55	Length:	2497
Score:	511.50	Matches:	106
Percent Similarity:	62.82%	Conservative:	41
Best Local Similarity:	45.30%	Mismatches:	68
Query Match:	44.48%	Indels:	19
DB:	10	Gaps:	4

US-09-817-199a-2 (1-223) x US-09-834-975-879 (1-2497)

```
QY 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro--- 21
DB 8 GGCAGGCC-----CCTCGCCCGGGCGCCCTCCCGCCTCTCTCCACCGCCT 55
QY 22 -----CysSerProSerTyrAspLeuThr 29
DB 56 CCTCTGGCTCCCGGTACAGGGCGGAGAGATGGCGAAGACATGATATTATCTC 115
QY 30 GlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPhe 49
DB 116 TTCAGCTCCTGCTGATCGGCGACTCGGGGTAGGCAAGACCTGCCTCTGTCGGCTTC 175
QY 50 LysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsn 69
DB 176 TCAGAGGAGCGCTTC---AACACCACTTCATCTCCACCATCGGAATTGATTTAAAT 232
QY 70 LysValValThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGln 89
DB 233 AGAAGCATAGAACTAGATGGAAAGAAATAAGCTTCAGATATGGGACACACGCGGT 292
QY 90 GluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeu 109
DB 293 GAAAGATTCCGAAACATCAGCACCGTACTACAGGAGCGCATGCGCATATGCTGCTC 352
QY 110 TyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeuThrGluIleHis 129
DB 353 TATGACATCACAAATGAAATCCTTTGACATATATAAAATTTGGATCAGAAACATTGAA 412
QY 130 GluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsnLysAlaAspMetSerSer 149
DB 413 GAGCATGCTCTTCGATGTGCAAGATGATCCTGGGTACAAATGTGATGATGATGAC 472
QY 150 GluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGlyValProPhe 169
DB 473 AAAGACAGTGTCAAAGAGAGAGGGGAGAGCTAGCAATTTGACTATGGGATTAATTC 532
QY 170 LeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLys 189
DB 533 TTGGACACAAGCGCAAAATCCAGTGCATAATGTAGAGAGGCGCATTTTACACTTGCACGA 592
QY 190 GluLeuLysTyrArgAlaGlyHisGlnAla---AspGluProSerPheGlnIleArgAsp 208
DB 593 GATATATACAAAACCTCAACAGAAATAATGAATGACAGCAATTCACGAGCAGGTGGA 652
QY 209 TyrValGluSerGlnLysLysArgSerSerCysSerPhe 222
DB 653 CCAGTGAATAACAGAAAAACCGATCAAAAGAGAGCAGTTC 694
```

RESULT 10

```
US-09-834-975-885
; Sequence 885, Application US/09834975
; Patent No. US20020110815A1
; GENERAL INFORMATION:
; APPLICANT: Brown, Jeffrey
; APPLICANT: Bolt, Andrew
; APPLICANT: Van Huffel, Christophe
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS AND METHODS
; TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF HUMAN CANCERS
; FILE REFERENCE: MRI-016B
; CURRENT APPLICATION NUMBER: US/09/834,975
; CURRENT FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/197,538
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 1046
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 885
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
```

; NAME/KEY: misc_feature
; LOCATION: (1)...(2497)
; OTHER INFORMATION: n = A,T,C or G
US-09-834-975-885

Alignment Scores: 1.33e-55 Length: 2497
Pred. No.: 511.50 Matches: 106
Score: 62.82% Conservative: 41
Percent Similarity: 45.30% Mismatches: 68
Best Local Similarity: 44.48% Indels: 19
Query Match: 10 Gaps: 4
DB:

US-09-817-199a-2 (1-223) x US-09-834-975-885 (1-2497)

Qy 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro--- 21
Db 8 GGCACGCC-----CCTCGCGCGCGGCCCTCCCGCCCTCTCCACCGCCT 55
Qy 22 -----CysSerProSerTyrAspLeuThr 29
Db 56 CCTCTGGCTCCCGGTCCAGAGCGCGGAGAGATGGCGAAGACGTACGATTATCTC 115
Qy 30 GlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPhe 49
Db 116 TTCAAGCTCTCGTATCGCGGACTCGGGGTAGGCAAGACCTGCCCTCTCTTCCGCTTC 175
Qy 50 LysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsn 69
Db 176 TCAGAGACGCCCTTC---AACACACACCTTCATCTCCACCATCGGAATTTGATTTTAA 232
Qy 70 LysValValThrValAspGlyValArgValLysLeuGlnIleTyrAspThrAlaGlyGln 89
Db 233 AGACGATAGACTAGATGGAAGAAATTAAGCTTCAGATATGGGACAGCGGGTCTAG 292
Qy 90 GluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeu 109
Db 293 GAAAGATTCGGAACATCAGACAGCGTACTACAGAGGAGCCATGGCATTTATGCTGTC 352
Qy 110 TyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTyrLeuThrGluIleHis 129
Db 353 TATGACATCACAATGAAATTCCTTTGACAATATTAATAATTGGATCAGAAACATTGAA 412
Qy 130 GluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsnLysAlaAspMetSerSer 149
Db 413 GAGCATGCCCTTCGATGTCGAAAGAAATGATCTGGGTAAACAATGTGATATGAATGAC 472
Qy 150 GluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGlyValProPhe 169
Db 473 AAAAGACAAGTGTCAAAAGAAAGAGGAGGAGAGGTAGCAATTTACTATGGATTAAATTC 532
Qy 170 LeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLys 189
Db 533 TTGAGACAGCGGAAATCCAGTGCAGAAATGTAGAGAGGCAATTTTACACTTGCACGA 592
Qy 190 GluLeuLysTyrArgAlaGlyHisGlnAla---AspGluProSerPheGlnIleArgAsp 208
Db 593 GATATAATGACAAAACCTCAACAGAAATGAATGACAGCAATTCAGCAGGACAGGTGGA 652

RESULT 11

US-09-834-975-894
; Sequence 894, Application US/09834975
; Patent No. US20020110815A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Brown, Jeffrey
; APPLICANT: Bolt, Andrew
; APPLICANT: Van Huffel, Christophe
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS AND METHODS

; TITLE OF INVENTION: FOR THE IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; FILE OF INVENTION: MRI-016B
; FILE REFERENCE: MRI-016B
; CURRENT APPLICATION NUMBER: US/09/834,975
; CURRENT FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/197,538
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 1046
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 894
; LENGTH: 2497
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(2497)
; OTHER INFORMATION: n = A,T,C or G
US-09-834-975-894

Alignment Scores: 1.33e-55 Length: 2497
Pred. No.: 511.50 Matches: 106
Score: 62.82% Conservative: 41
Percent Similarity: 45.30% Mismatches: 68
Best Local Similarity: 44.48% Indels: 19
Query Match: 10 Gaps: 4
DB:

US-09-817-199a-2 (1-223) x US-09-834-975-894 (1-2497)

Qy 3 GlyThrProGlyAlaValAlaThrArgAspGlyGluAlaProGluArgSerProPro--- 21
Db 8 GGCACGCC-----CCTCGCGCGCGGCCCTCCCGCCCTCTCTCCACCGCCT 55
Qy 22 -----CysSerProSerTyrAspLeuThr 29
Db 56 CCTCTGGCTCCCGGTCCAGAGCGCGGAGAGATGGCGAAGACGTACGATTATCTC 115
Qy 30 GlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPhe 49
Db 116 TTCAAGCTCTCGTATCGCGGACTCGGGGTAGGCAAGACCTGCCCTCTCTTCCGCTTC 175
Qy 50 LysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsn 69
Db 176 TCAGAGACGCCCTTC---AACACACACCTTCATCTCCACCATCGGAATTTGATTTTAA 232
Qy 70 LysValValThrValAspGlyValArgValLysLeuGlnIleTyrAspThrAlaGlyGln 89
Db 233 AGAAGATTCGGAACATCAGACAGCGTACTACAGAGGAGCCATGGCATTTATGCTGTC 292
Qy 90 GluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeu 109
Db 293 GAAAGATTCGGAACATCAGACAGCGTACTACAGAGGAGCCATGGCATTTATGCTGTC 352
Qy 110 TyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTyrLeuThrGluIleHis 129
Db 353 TATGACATCACAATGAAATTCCTTTGACAATATTAATAATTGGATCAGAAACATTGAA 412
Qy 130 GluTyrAlaGlnArgAspValIleMetLeuLeuGlyAsnLysAlaAspMetSerSer 149
Db 413 GAGCATGCCCTTCGATGTCGAAAGAAATGATCTGGGTAAACAATGTGATATGAATGAC 472
Qy 150 GluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGluTyrGlyValProPhe 169
Db 473 AAAAGACAAGTGTCAAAAGAAAGAGGAGGAGAGGTAGCAATTTACTATGGATTAAATTC 532
Qy 170 LeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLys 189
Db 533 TTGAGACAGCGGAAATCCAGTGCAGAAATGTAGAGAGGCAATTTTACACTTGCACGA 592
Qy 190 GluLeuLysTyrArgAlaGlyHisGlnAla---AspGluProSerPheGlnIleArgAsp 208
Db 593 GATATAATGACAAAACCTCAACAGAAATGAATGACAGCAATTCAGCAGGACAGGTGGA 652


```
Db 108 TCTGGCGTAGGCAAGTCTGTCTCTTTTGGAGATTCTCTGATGATTCTTATGTAGAA--- 164
Qy 58 ThrPheileAlaThrValGlyIleAspPheArgAsnLysValValThrValAspGlyVal 77
Db 165 AGTTACATTAGCACTATTGGAGTGCATTTTAAAAATAGGACTGTGGCAACAGATGGCAAA 224
Qy 78 ArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGluArgPheArgSerValThrHis 97
Db 225 ACAATTAAAGCTCCAAATTTGGACACATGCTGTCTCAAGAACGGTTTCAGGACTATTACTAGC 284
Qy 98 AlaTyrTrpArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSer 117
Db 285 AGTTACTACCGTGGGGCACATGGAATTATTATTCTACGATGTCACAGATGAAGAAAGC 344
Qy 118 PheAspAsnIleArgAlaTrpLeuThrGluIleHisGluTyrAlaGlnArgAspValVal 137
Db 345 TTCAAATATGTCAGCAATGTTGAGTGAATTTGATGCTTATGCTAGTACAAATGTCAAC 404
Qy 138 IleMetLeuLeuGlyAsnLysAlaAspMetSerGluArgValIleArgSerGluAsp 157
Db 405 AAACCTCTTGTGGAACAAGCTGATCTTACTGAAAACAGAGCCATTCCTTATGAACCT 464
Qy 158 GlyGluThrLeuAlaArgGluTyrGlyValProPheLeuGluThrSerAlaLysThrGly 177
Db 465 GCCAAGGCTTTTGGCGATGAAATCGGATTCCTTTTATGGAGACTAGTGCAAAAGATGCT 524
Qy 178 MetAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuLysTyrArg----- 194
Db 525 ACAACGTAGAACAGGCTTTCATGGCAATGCTGCATCCATCAAGAGAGAAATGGCTAGC 584
Qy 195 -----AlaGlyHisGlnAlaAspGluProSerPheGlnIleArgAspTyrValGluSer 212
Db 585 CAACCAAGCTGGGAATAATGCAAGACCACCGACCGTGCAGATCAGAGGACACCTGTGCA 644
Qy 213 GlnLysLysArgSerSerCysSer 221
Db 645 CAGAAG-----AACGGCTGCTGCTCA 665
```

RESULT 14

```
US-09-925-300-631
; Sequence 631, Application US/09925300
; Patent No. US20020151861A1
; GENERAL INFORMATION:
; APPLICANT: Steve Ruben,
; APPLICANT: Craig Rosen,
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 631
; LENGTH: 1537
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (5)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-300-631

Alignment Scores:
Pred. No.: 3.28e-55 Length: 1537
Score: 506.00 Matches: 104
Percent Similarity: 66.20% Conservative: 37
Best Local Similarity: 48.83% Mismatches: 64
Query Match: 44.00% Indels: 8
DB: 10 Gaps: 3
```

```
US-09-817-199a-2 (1-223) x US-09-925-300-631 (1-1537)
Qy 13 GlyGluAlaProGluArgSer--ProProCysSerProSerTyrAspLeuThrGlyLysV 32
Db 507 GGCAGAGACCCGAGCCGCTCTCCCAATGGCGAAAGACAGCTAGCACCTGCTTTTCAAGC 566
Qy 32 alMetLeuLeuGlyAspThrGlyValGlyLysThrCysPheLeuIleGlnPheLysAspG 52
Db 567 TGCTCCTGATCGGGATTCGGAGTGGGAAGACCTGGTCTCTTTTTCGTTTCGGATG 626
Qy 52 lyAlaPheLeuSerGlyThrPheIleAlaThrValGlyIleAspPheArgAsnLysValV 72
Db 627 ATGCTTC--AATACTACCTTTATTTCACCATAGGAATAGACTTCAAGATCAAAACAG 683
Qy 72 alThrValAspGlyValArgValLysLeuGlnIleTrpAspThrAlaGlyGlnGluArgP 92
Db 684 TTGAATTACAAGAAAGATCAAGCTACAGATATGGATACAGCAGCCAGGAGCCGAT 743
Qy 92 heArgSerValThrHisAlaTyrTyrArgAspAlaGlnAlaLeuLeuLeuLeuTyrAspI 112
Db 744 TTCACACCATCACACCTCTACTACAGAGCGCAATGGGTATCATGCTAGTATATGACA 803
Qy 112 leThrAsnLysSerSerPheAspAsnIleArgAlaTrpLeuThrGluIleHisGluTyrA 132
Db 804 TCACCAATGGTAAAAAGTTTTCGAAAACATCAGCAAAATGGCTTAGAAACATAGATGAGCATG 863
Qy 132 laGlnArgAspValIleMetLeuLeuGlyAsnLysAlaAspMetSerSerGluArgV 152
Db 864 CCAATGAAGATGTGGAAGAATGTACTAGGAACAACTGTGATATGGACGACCAAAAGAG 923
Qy 152 alIleArgSerGluAspGlyThrLeuAlaArgGluTyrGlyValProPheLeuGluT 172
Db 924 TTGTACCTAAAGGAAAGGAGACAGATTTGCAAGGGACATGGTATTAGTATTTTGAGA 983
Qy 172 hrSerAlaLysThrGlyMetAsnValGluLeuAlaPheLeuAlaIleAlaLysGluLeuL 192
Db 984 CTAGTGCAAAAGCAAAATATAAACATCGAAAAGGGCTTCCTCAGCTTAGCTGAAGATATCC 1043
Qy 192 yTyrArgAlaGlyHisGlnAlaAspGluProSerPheGlnIleArgAspTyrValGluS 212
Db 1044 TTCGAAGAGCC-----CCTGTAAAGAGCCCAACAGTGAANAATGTAGATATCAGCAGCTG 1097
Qy 212 er-----GlnLysLysArgSerSerCysCys 220
Db 1098 GAGGAGGGCTGACAGGCTGGAAGAGAGCAAAATGCTGC 1132
```

RESULT 15

```
US-09-794-257-9
; Sequence 9, Application US/09794257
; Patent No. US2002009804A1
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US2002009804A1e1
; FILE REFERENCE: Human G-Proteins
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 624
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-794-257-9

Alignment Scores:
Pred. No.: 3.8e-55 Length: 624
Score: 501.00 Matches: 98
Percent Similarity: 69.35% Conservative: 40
Best Local Similarity: 49.25% Mismatches: 59
Query Match: 43.57% Indels: 2
```

```

DB:          10          Gaps:          2
US-09-817-199A-2 (1-223) x US-09-794-257-9 (1-624)
QY  25 SerTyrAspLeuThrGlyLysValMetLeuLeuGlyAspThrGlyValGlyLysThrCys 44
    ::::||||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  10 ACGTAGGATTATCTCTCAAGCTCCTCGTGGGACTCGGGGTAGGCAAGACCTGC 69
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  45 PheLeuIleGlnPheLysAspGlyAlaPheLeuSerGlyThrPheIleAlaThrValGly 64
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  70 CTCCTGTTCGGCTTCACAGAGCGGCTTC--AACACCACCTTCATCTCCACCACCGGA 126
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  65 IleAspPheArgAsnLysValValThrValAspGlyValArgValLysLeuGlnIleTrp 84
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  127 ATTGATTTTAAATTTAGAACGATAGAACTAGATGGAAAGAAAAATTAAGCTTCAGATATGG 186
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  85 AspThrAlaGlyGlnGluArgPheArgSerValThrHisAlaTyrTyrArgAspAlaGln 104
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  187 GACACACGCGGTCAGGAAAGATTCCGAACAATCACGACACGCTACTACAGAGGAGCCATG 246
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  105 AlaLeuLeuLeuLeuTyrAspIleThrAsnLysSerSerPheAspAsnIleArgAlaTrp 124
    ::::||||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  247 GGCATTATGCTGCTATGATCATCACAAATGAAAAATCCTTTGACAAATATTAAAAATTGG 306
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  125 LeuThrGluIleHisGluTyrAlaGlnArgAspValValIleMetLeuLeuGlyAsnLys 144
    ::::||||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  307 ATCAGAAACATTGAAGAGCATGCTCTCTCGATGTCGAAAGAATGATCCTGGGTAACAAA 366
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  145 AlaAspMetSerSerGluArgValIleArgSerGluAspGlyGluThrLeuAlaArgGlu 164
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  367 TGTGATATGAATGACAAAAGACACAAGTGTCAAAAGAAAGAGGGGAGAGCTAGCAATTGAC 426
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  165 TyrGlyValProPheLeuGluThrSerAlaLysThrGlyMetAsnValGluLeuAlaPhe 184
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  427 TATGGGATTAAATCTTGGAGACAAGCGCAAAATCCAGTCCAATGTAGAGAGGCATT 486
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  185 LeuAlaIleAlaLysGluLeuLysTyrArgAlaGlyHisGlnAla---AspGluProSer 203
    ::::||||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  487 TTTACACTTGCACGAGATATAATGACAAAACCTCAACAGAAAAAATGAATGACAGCAATTCA 546
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
QY  204 PheGlnIleArgAspTyrValGluSerGlnLysLysArgSerSerCysCysSerPhe 222
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||
Db  547 GCAGGAGCAGGTGGACGAGTGAATAAACAAGAAACCGATCAAGAAGACCAGCTTTC 603
    ||| ::::||||| ::::||||| ::::||||| ::::||||| ::::|||||

```

Search completed: January 16, 2003, 07:29:01
 Job time : 58 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 16, 2003, 04:27:25 ; Search time 71 Seconds
(without alignments)
11550.052 Million cell updates/sec

Title: US-09-817-199A-1

Perfect score: 2674

Sequence: 1 ttccgctgcggcgccgact.....aaaaaaaaaaaaaaaaa 2674

Scoring table: IDENTITY_NUC

Gapop 10.0 , Capext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_NA:*

- 1: /cgn2_6/ptodata/1/ina/5A.COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5B.COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A.COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B.COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PCTUS.COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2607.8	97.5	2612	4	US-09-484-970B-142
2	873	32.6	875	4	US-09-075-454-10
3	292.6	10.9	1340	2	US-08-824-873-2
4	292.6	10.9	1340	3	US-09-198-184-2
C 5	193.4	7.2	99500	4	US-09-798-096-10
C 6	193.2	7.2	87350	3	US-08-781-891-79
C 7	193.2	7.2	87543	4	US-09-791-211-3
C 8	192.8	7.2	8453	4	US-09-167-681-45
C 9	192.4	7.2	112132	4	US-09-741-150-3
10	192.2	7.2	6678	3	US-08-816-617A-1
11	192.2	7.2	9301	4	US-09-449-2180-18
12	192.2	7.2	35060	3	US-08-814-095-7
13	192.2	7.2	98844	4	US-09-791-211-10
14	191.4	7.2	29629	4	US-09-729-995-3
15	190.8	7.1	6769	1	US-08-480-784-20
16	190.8	7.1	6769	1	US-08-483-553-20
17	190.8	7.1	6769	1	US-08-487-002-20
18	190.8	7.1	6769	1	US-08-483-554B-20
19	190.8	7.1	6769	1	US-08-488-011B-20
20	190.8	7.1	6769	4	US-08-850-727-20
21	190.8	7.1	6769	5	PCT-US95-10203-20
22	190.8	7.1	6769	5	PCT-US95-10203-20
23	190.8	7.1	6769	5	PCT-US95-10220-20
C 24	190.4	7.1	45546	4	US-09-146-053-6
25	190	7.1	45716	4	US-08-965-048-5
26	190	7.1	45989	4	US-08-965-048-6
27	189	7.1	14581	4	US-08-520-373D-4

28	189	7.1	22481	4	US-08-367-841A-43	Sequence 43, Appl
29	189	7.1	22481	5	PCT-US95-07201-43	Sequence 43, Appl
30	189	7.1	22484	4	US-09-875-223-2	Sequence 2, Appl
C 31	189	7.1	55827	4	US-09-813-133A-3	Sequence 3, Appl
32	189	7.1	99500	4	US-09-798-096-10	Sequence 10, Appl
C 33	188.4	7.0	36651	4	US-09-738-894A-3	Sequence 3, Appl
34	188.4	7.0	59065	4	US-09-813-817-3	Sequence 3, Appl
35	188.4	7.0	59065	4	US-09-798-197-3	Sequence 3, Appl
C 36	187.8	7.0	50000	4	US-09-146-053-3	Sequence 3, Appl
37	187.5	7.0	8133	4	US-09-659-791A-10	Sequence 10, Appl
38	187	7.0	3867	4	US-09-347-114A-81	Sequence 81, Appl
C 39	187	7.0	43950	4	US-09-735-934A-3	Sequence 3, Appl
C 40	186.6	7.0	8353	3	US-08-611-587-1	Sequence 1, Appl
C 41	186.4	7.0	1043	4	US-09-165-868-4	Sequence 4, Appl
42	186.4	7.0	3694	4	US-09-232-200-46	Sequence 46, Appl
43	186.4	7.0	3694	4	US-09-232-197-46	Sequence 46, Appl
44	186.4	7.0	3694	4	US-09-232-201-46	Sequence 46, Appl
45	186.4	7.0	3704	4	US-09-232-200-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1
US-09-484-970B-142
; Sequence 142, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Voikmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484, 970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 142
; LENGTH: 2612
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6426186 412477.1CB1
US-09-484-970B-142

Query Match		97.5%	Score 2607.8;	DB 4;	Length 2612;
Best Local Similarity		99.9%	Pred. No. 0;		
Matches 2609;		Conservative	0;	Mismatches	2;
				Indels	0;
				Gaps	0;
QY	27	CTCTCGTCCAGGACATGACGGGACGCGCCAGCGCCGTTGCCACCCGGGATGGCGAGCC	86		
Db	1	CTCTCGTCCAGGACATGACGGGACGCGCCAGCGCCGTTGCCACCCGGGATGGCGAGCC	60		
QY	87	CCCGAGCGCTCCCGCCCTCGAGTCCGAGCTACGACCTACGCGGCAAGGTGATGCTTCTG	146		
Db	61	CCCGAGCGCTCCCGCCCTCGAGTCCGAGCTACGACCTACGCGGCAAGGTGATGCTTCTG	120		
QY	147	GGAGACACAGCGCTCGGCAAAACATGTTCTGTATCCAAATTCAAAGACGGGCTTCCTG	206		
Db	121	GGAGACACAGCGCTCGGCAAAACATGTTCTGTATCCAAATTCAAAGACGGGCTTCCTG	180		
QY	207	TCCGGAAGCTTCATAGCCACCGTCGGCATAGACTTCAGAACAGGTGCTGCTGATG	266		
Db	181	TCCGGAAGCTTCATAGCCACCGTCGGCATAGACTTCAGAACAGGTGCTGCTGATG	240		
QY	267	GGCGTGAGAGTGAAGCTGCAGATCTGGACACCGCTGGCAGGACCGTTCGGAAGCTC	326		
Db	241	GGCGTGAGAGTGAAGCTGCAGATCTGGACACCGCTGGCAGGACCGTTCGGAAGCTC	300		
QY	327	ACCATGCTTATTACAGAGATGCTCAGCGCTTGTCTGTGTATGACATCACCACAAA	386		
Db	301	ACCATGCTTATTACAGAGATGCTCAGCGCTTGTCTGTGTATGACATCACCACAAA	360		

QY 387 TCCTCTTTGACAAATCATAGGGCTTGGCTCACTGAGATCATGAGTATGCCACAGAGGAC 446
|||||
Db 361 TCCTCTTTGACAAATCATAGGGCTTGGCTCACTGAGATCATGAGTATGCCACAGAGGAC 420
QY 447 GTGGTGATCATGCTGTAGGCAACAGGGCGGATATGAGCAGCCAAAGAGTGCCTTCC 506
|||||
Db 421 GTGGTGATCATGCTGTAGGCAACAGGGCGGATATGAGCAGCCAAAGAGTGCCTTCC 480
QY 507 GAAGACGGAGAGACCTTGGCCAGGGAGTACGGTGTCCCTTCCCTGGAGACACAGCGCAAG 566
|||||
Db 481 GAAGACGGAGAGACCTTGGCCAGGGAGTACGGTGTCCCTTCCCTGGAGACACAGCGCAAG 540
QY 567 ACTGGCATGAATGTGAGTTAGCTTTCCTGGCCATCCCAAGGAACCTGAAATACCGGGCC 626
|||||
Db 541 ACTGGCATGAATGTGAGTTAGCTTTCCTGGCCATCCCAAGGAACCTGAAATACCGGGCC 600
QY 627 GGGCATCAGGGGATGAGCCGACTTCCAGATCCGAGACTATGTAGTCCCAAGAGAG 686
|||||
Db 601 GGGCATCAGGGGATGAGCCGACTTCCAGATCCGAGACTATGTAGTCCCAAGAGAG 660
QY 687 CGCTCAGCTGCTGCTTCCTCATGTGAATCCACAGGGGCGAGAGAGGCTCTGGAGGCA 746
|||||
Db 661 CGCTCAGCTGCTGCTTCCTCATGTGAATCCACAGGGGCGAGAGAGGCTCTGGAGGCA 720
QY 747 CACAGGATGAGGCTTCCCTCCCTCCAGGCTTTCCTTATCCAAAGAGGCTGAGCCAAATGGG 806
|||||
Db 721 CACAGGATGAGGCTTCCCTCCCTCCAGGCTTTCCTTATCCAAAGAGGCTGAGCCAAATGGG 780
QY 807 GAGAAAGATGAGGACTCAGTCACAGCCGCTTCCCTAGCAGGAGGCTATACTCCAACCTC 866
|||||
Db 781 GAGAAAGATGAGGACTCAGTCACAGCCGCTTCCCTAGCAGGAGGCTATACTCCAACCTC 840
QY 867 TACTTGAGTTCTCGGCTCTCCCGATCCACAGGAGGCTGAAACACTTGTGCTTTATT 926
|||||
Db 841 TACTTGAGTTCTCGGCTCTCCCGATCCACAGGAGGCTGAAACACTTGTGCTTTATT 900
QY 927 TTAATAGTACATAATTTAATACCAAAAAGGCGCTGGATCCCAAAAACAGGAGCTGG 986
|||||
Db 901 TTAATAGTACATAATTTAATACCAAAAAGGCGCTGGATCCCAAAAACAGGAGCTGG 960
QY 987 GAGCTAGTGCCCTTTTGCTTTCTAGGACTTGGGGGCGGCGCTCCCTCAAGCATAA 1046
|||||
Db 961 GAGCTAGTGCCCTTTTGCTTTCTAGGACTTGGGGGCGGCGCTCCCTCAAGCATAA 1020
QY 1047 CAAAGGTGTGTGCTCCAGCTCAGCCCGCAGGGGACACAGATGCACCTTTGGGGGTGAGGG 1106
|||||
Db 1021 CAAAGGTGTGTGCTCCAGCTCAGCCCGCAGGGGACACAGATGCACCTTTGGGGGTGAGGG 1080
QY 1107 CAGGTAATGACTCCATGCGCACCTCAGTTCAAGCTGGACAGAGGCTCAGGTGACCCGAGCC 1166
|||||
Db 1081 CAGGTAATGACTCCATGCGCACCTCAGTTCAAGCTGGACAGAGGCTCAGGTGACCCGAGCC 1140
QY 1167 TTCAGTCTCCGCTCTCCAGAGGCTTATCTTCGCCCATCTCCCAAAATAGTGGGCC 1226
|||||
Db 1141 TTCAGTCTCCGCTCTCCAGAGGCTTATCTTCGCCCATCTCCCAAAATAGTGGGCC 1200
QY 1227 TTGTGCTGTGAGGAAGACCAAGCCTCAGGGAAGATAAGAGATATGAGATGGAGGGG 1286
|||||
Db 1201 TTGTGCTGTGAGGAAGACCAAGCCTCAGGGAAGATAAGAGATATGAGATGGAGGGG 1260
QY 1287 AGGACAAAGGGGACAGAGTATAGGCTTAGCTGGCTATCTCTGCGCTTACTTAACACCCGCC 1346
|||||
Db 1261 AGGACAAAGGGGACAGAGTATAGGCTTAGCTGGCTATCTCTGCGCTTACTTAACACCCGCC 1320
QY 1347 GGAGGATGCCCCCTTTCTCCAGCACACAGACATTTGGGGACCTTGGAAATATGGTTC 1406
|||||
Db 1321 GGAGGATGCCCCCTTTCTCCAGCACACAGACATTTGGGGACCTTGGAAATATGGTTC 1380
QY 1407 CAGGCTCCTGCTCTGAGCTTCAGATCCCTGGGGAGCCCTCCCGCTGAATCCCTG 1466
|||||
Db 1381 CAGGCTCCTGCTCTGAGCTTCAGATCCCTGGGGAGCCCTCCCGCTGAATCCCTG 1440

QY 1467 GCTTAGCTACCTTCCTGCTGTCACCTTAAACCTCAGGTCAGAACTAGGAAAAGAGTT 1526
|||||
Db 1441 GCTTAGCTACCTTCCTGCTGTCACCTTAAACCTCAGGTCAGAACTAGGAAAAGAGTT 1500
QY 1527 TTGTTTTTATTTTTTGAATGAGTCTGTTCTGTGCGCCAGGCTGAGTGCAGTAGTG 1586
|||||
Db 1501 TTGTTTTTATTTTTTGAATGAGTCTGTTCTGTGCGCCAGGCTGAGTGCAGTAGTG 1560
QY 1587 CAATCTCCGCTCACTACAACCTCCACTCCCTGGGGCTCAAGCGATCCTCCACCTCAGCC 1646
|||||
Db 1561 CAATCTCCGCTCACTACAACCTCCACTCCCTGGGGCTCAAGCGATCCTCCACCTCAGCC 1620
QY 1647 GCCGAAGTACTGGGACTATAGTGTGTACATCACACCTGGCTAAATTTTGTATTTTTT 1706
|||||
Db 1621 CCCGAAGTACTGGGACTATAGTGTGTACATCACACCTGGCTAAATTTTGTATTTTTT 1680
QY 1707 GTAGACACAGGGTTTCGCCATGTTGCCAGGCTGGTCTTGAATTCCTGAGCTCAAGCAAC 1766
|||||
Db 1681 GTAGACACAGGGTTTCGCCATGTTGCCAGGCTGGTCTTGAATTCCTGAGCTCAAGCAAC 1740
QY 1767 CTGCCGCTCGGCTCCCAAGTACTTGGGATTACACGCAAGAGGACCATGCCCAGGCT 1826
|||||
Db 1741 CTGCCGCTCGGCTCCCAAGTACTTGGGATTACACGCAAGAGGACCATGCCCAGGCT 1800
QY 1827 AGATGTGCTTATCCAAATCCTTTGGCAGGCTGAGCTCCACAGGCGATTTCTCAAGC 1886
|||||
Db 1801 AGATGTGCTTATCCCAATCCTTTGGCAGGCTGAGCTCCACAGGCGATTTCTTCAAGC 1860
QY 1887 AGCTGAAGTGTTTAGCCCTCTCGGTTAGAGCCAGATAGAGAAATCCCTTCTCTAGG 1946
|||||
Db 1861 AGCTGAAGTGTTTAGCCCTCTCGGTTAGAGCCAGATAGAGAAATCCCTTCTCTAGG 1920
QY 1947 TTTTGAATGTGTTGTGAAAAAAGAGAAATCCCTGCTGCTGAGCTGGTGGGAGACAA 2006
|||||
Db 1921 TTTTGAATGTGTTGTGAAAAAAGAGAAATCCCTGCTGAGCTGGTGGGAGACAA 1980
QY 2007 GATTAAGAAACCTCCCTGACATGATCCCTTTGAGCCCAAGCTGTGCTCCTCTGA 2066
|||||
Db 1981 GATTAAGAAACCTCCCTGACATGATCCCTTTGAGCCCAAGCTGTGCTCCTCTGA 2040
QY 2067 CCACCATGCTTCTTCTTAACTTCTCAACAGATACAGGCTTAACTGCTTTACCT 2126
|||||
Db 2041 CCACCATGCTTCTTCTTAACTTCTCAACAGATACAGGCTTAACTGCTTTACCT 2100
QY 2127 CCCTCTCTACTGAGTCAAGTTAGTGGGAGGCTCACCCTATTTCCGAGTTAAACCAATG 2186
|||||
Db 2101 CCCTCTCTACTGAGTCAAGTTAGTGGGAGGCTCACCCTATTTCCGAGTTAAACCAATG 2160
QY 2187 CAATATGAGTAAACAAAGTCAATGTGGGTATGTCTGGGTAGAGAGAGGGGTAGCAAGTT 2246
|||||
Db 2161 CAATATGAGTAAACAAAGTCAATGTGGGTATGTCTGGGTAGAGAGAGGGGTAGCAAGTT 2220
QY 2247 CATGTCTCTCTTGTGTCACATATCTCCAAAGCTCTGATCCCTGCCATGGGAGTGGAC 2306
|||||
Db 2221 CATGTCTCTCTTGTGTCACATATCTCCAAAGCTCCGATCCCTGCCATGGGAGTGGAC 2280
QY 2307 AGAAACATCAGGCTCATGACCTGCAGGCTCTTACTGACGCTCTGCCGCTGGAGGGG 2366
|||||
Db 2281 AGAAACATCAGGCTCATGACCTGCAGGCTCTTACTGACGCTCTGCCGCTGGAGGGG 2340
QY 2367 GAGAGGGGAGGAAGATATGCGCTGACATTTCTGAGGCTACTGCAATTTGCTTTCAAG 2426
|||||
Db 2341 GAGAGGGGAGGAAGATATGCGCTGACATTTCTGAGGCTACTGCAATTTGCTTTCAAG 2400
QY 2427 GCAGAAATCTTGTCTCAGCAGTCAAGGCTCCAGTTGGGCCGAGTAAGAGATCTCTCC 2486
|||||
Db 2401 GCAGAAATCTTGTCTCAGCAGTCAAGGCTCCAGTTGGGCCGAGTAAGAGATCTCTCC 2460
QY 2487 GTGGCTTCTCAGGACAGCAGGAGGAGGCTGACATTTGCCAGTCTCTTCTGGGGCCCA 2546
|||||
Db 2461 GTGGCTTCTCAGGACAGCAGGAGGAGGCTGACATTTGCCAGTCTCTTCTGGGGCCCA 2520
QY 2547 AGCAGGTTGACAGAGATCCAAATCCCATAGACAGCTCTGGGCTCTTGGCATTTGAGTTT 2606

Db 2521 AGCAGGTTGCAGGAGATCCAAATCCCATAGACAGCTCTGGCCCTCTTGCATTTGAGTTT 2580
QY 2607 TCAGAATAAATGACAGTATTTTGGAAAGCA 2637
Db 2581 TCAGAATAAATGACAGTATTTTGGAAAGCA 2611

RESULT 2
US-09-075-454-10
; Sequence 10, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01
; CLONE: 1528559
US-09-075-454-10

Query Match 32.6%; Score 873; DB 4; Length 875;
Best Local Similarity 100.0%; Pred. No. 1.5e-186;
Matches 873; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 46 CGGCGACGCCAGCGCGGTGGCCACCGGATGGCGAGGCCCGCCGAGCGCTCCCGCCCT 105
Db 1 CGGCGACGCCAGCGCGGTGGCCACCGGATGGCGAGGCCCGCCGAGCGCTCCCGCCCT 60
QY 106 GCAGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTCGGCA 165
Db 61 GCAGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTCGGCA 120

QY 166 AAACATGTTTCTGTATCCAAATTCAGAGCGGGCCCTTCTGTCCGGAACCTTCATAGCCA 225
Db 121 AAACATGTTTCTGTATCCAAATTCAGAGCGGGCCCTTCTGTCCGGAACCTTCATAGCCA 180
QY 226 CCCTCGCATAGACTTCAGGAACAAGGTGTGTACTGTGGATGGCGGTGAGAGTGAAGCTGC 285
Db 181 CCCTCGCATAGACTTCAGGAACAAGGTGTGTACTGTGGATGGCGGTGAGAGTGAAGCTGC 240
QY 286 AGATCTGGGACACCGCTGGGCGAGGAACGGTTCCGAAGCGTCCACCCATGCTTATACAGAG 345
Db 241 AGATCTGGGACACCGCTGGGCGAGGAACGGTTCCGAAGCGTCCACCCATGCTTATACAGAG 300
QY 346 ATGCTCAGGCGCTTGTCTGTATGACATCACCAACAAATCTTCTTCGACAAATCA 405
Db 301 ATGCTCAGGCGCTTGTCTGTATGACATCACCAACAAATCTTCTTCGACAAATCA 360
QY 406 GGGCGCTGCTCACTGAGATTCATGATGCCAGAGGACGGTGGTGTATCATCTGCTGTAG 465
Db 361 GGGCGCTGCTCACTGAGATTCATGATGCCAGAGGACGGTGGTGTATCATCTGCTGTAG 420
QY 466 GCAACAAGGGGATATGAGCAGCGAAAGAGTGTATCCGTTCCGGAAGCGGAGACCTTGG 525
Db 421 GCAACAAGGGGATATGAGCAGCGAAAGAGTGTATCCGTTCCGGAAGCGGAGACCTTGG 480
QY 526 CCAGGAGTACGGTGTTCCTTCTGTGAGACCGAGCGCCAGACTGGCATGAATGTGGAGT 585
Db 481 CCAGGAGTACGGTGTTCCTTCTGTGAGACCGAGCGCCAGACTGGCATGAATGTGGAGT 540
QY 586 TAGCCTTCTGCGCATCGCCAAAGAACTGAAATACCGGGCCGGGCATCAGCGCGATGAGC 645
Db 541 TAGCCTTCTGCGCATCGCCAAAGAACTGAAATACCGGGCCGGGCATCAGCGCGATGAGC 600
QY 646 CCAGCTTCCAGATCCGAGACTATGTAGAGTCCCGAGAGAGCGCTCCAGCTGCTGCTCCT 705
Db 601 CCAGCTTCCAGATCCGAGACTATGTAGAGTCCCGAGAGAGCGCTCCAGCTGCTGCTCCT 660
QY 706 TCATGTGAATCCCGAGGCGGAGAGGAGGCTCTGGAGGCACACAGGATCAGCGCTTCCC 765
Db 661 TCATGTGAATCCCGAGGCGGAGAGGAGGCTCTGGAGGCACACAGGATCAGCGCTTCCC 720
QY 766 CTCTCCAGCGCTGGCTTATTCGAAGAGGCTGAGCCCAATGGGGAGAAAGATGGAGGACTCA 825
Db 721 CTCTCCAGCGCTGGCTTATTCGAAGAGGCTGAGCCCAATGGGGAGAAAGATGGAGGACTCA 780
QY 826 CTGCACAGCGCTTCTTAGCAGGAGCTATCTACTCCAACTCCTTCTGAGTTCCTGCGGTC 885
Db 781 CTGCACAGCGCTTCTTAGCAGGAGCTATCTACTCCAACTCCTTCTGAGTTCCTGCGGTC 840
QY 886 TCCCGCATCCACAGGAGGGTAAACACTTAG 918
Db 841 TCCCGCATCCACAGGAGGGTAAACACTTAG 873

RESULT 3
US-08-824-873-2
; Sequence 2, Application US/08824873
; Patent No. 5843717
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

;; SOFTWARE: FastSEQ for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/824,873
;; FILING DATE: Filed Herewith
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Billings, Lucy J.
;; REGISTRATION NUMBER: 36,749
;; REFERENCE/DOCKET NUMBER: PF-0240 US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-855-0555
;; TELEFAX: 415-845-4166
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1340 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; LIBRARY: PANCNOT04
;; CLONE: 738957
;; US-08-824-873-2

Query Match 10.9%; Score 292.6; DB 2; Length 1340;
Best Local Similarity 70.9%; Pred. No. 1.4e-56;
Matches 416; Conservative 0; Mismatches 169; Indels 2; Gaps 2;
QY 116 CTACGACCTCAGCGGCAAGGTGCTTCTGGAGACACACGCGTCGGCAAAACATGTTT 175
Db 21 CTACGACGTCGCTTCAAGGTCATGCTGGTGGGACTCGGGTGGGGAAGACCTGTCT 80
QY 176 CTGA-TCCAAITCAAAGACGGGCTTCTCTCGGAACCTTCATAGCCACCGTCGGCA 234
Db 81 GCTGGTGGATTCAGGATGCTGCTTCTGGCGGGACCTTCATCTCCACCGT-AGCA 139
QY 235 TAGACTTCAGGAACAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 294
Db 140 TTGACTTCCGGAACAAAGTCTGGAGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 199
QY 295 ACACCGCTGGGACGAGGCTCCGAGCGCTCACCACCTGCTTATACAGAGATGCTCAGG 354
Db 200 ACACAGCTGGTCCAGGAGGCTTCCGAGCTGCTTACCATGCTTACCGGGATGCTCATG 259
QY 355 CCTTGTCTCTGTATGATGATCAGCAACAAATCTCTTTTCGACAACTAGGCGCTGGC 414
Db 260 CTCTGCTGCTCTACGATGTCACCAACAGGCTCTCTTTGACAACTCCAGGCTGGC 319
QY 415 TCACCTAGATTCATGATGATGCGGAGGAGCTGGTGTATGCTGTCTAGGCAACAAGG 474
Db 320 TGACCGAGATCCAGAGTACGCGCCACGACGAGCTGGCTGCTGTCTGGGGAACAAGG 379
QY 475 CGGATATGACGACGGAAGAGTATCCGCTTCCGAGACGAGAGACCTTGTGGCCAGGAGT 534
Db 200 ACACAGCTGGTCCAGGAGGCTTCCGAGCTGCTTACCATGCTTACCGGGATGCTCATG 259
QY 355 CCTTGTCTCTGTATGATGATCAGCAACAAATCTCTTTTCGACAACTAGGCGCTGGC 414
Db 260 CTCTGCTGCTCTACGATGTCACCAACAGGCTCTCTTTGACAACTCCAGGCTGGC 319
QY 415 TCACCTAGATTCATGATGATGCGGAGGAGCTGGTGTATGCTGTCTAGGCAACAAGG 474
Db 320 TGACCGAGATCCAGAGTACGCGCCACGACGAGCTGGCTGCTGTCTGGGGAACAAGG 379
QY 475 CGGATATGACGACGGAAGAGTATCCGCTTCCGAGACGAGAGACCTTGTGGCCAGGAGT 534
Db 380 TGGACTCTGCCCCATGAGCTGTGGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGT 439
QY 535 ACGGTGTTCCCTCTCTGGAGACAGGCGCCAGAGCTGGCATGATGTGGAGCTTAGCCTTTC 594
Db 440 ATGGACTGCGCTTCTATGGAGACAGGCGCCAGGAGGAGGAGGAGGAGGAGGAGGAGT 499
QY 595 TGGCCATCGCAGGAACTCAAAATACCGGGCGGGATCAGGCGGATGAGCCCGAGCTTCC 654
Db 500 CAGCCATAGCAAGGAGTTGAGCAGGCTCCATGAGGCTCCAGGAGGCGGCTTCC 559
QY 655 AGATCCGAGACTATGTAGAGTCCCAAGAGAGGCGCTCCAGCTGCTGC 701
Db 560 GGCTGCATGATTACGTTAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 606

RESULT 4
US-09-198-184-2

;; Sequence 2, Application US/09198184
;; Patent No. 6010859
;; GENERAL INFORMATION:
;; APPLICANT: Hillman, Jennifer L.
;; APPLICANT: Guegler, Karl
;; TITLE OF INVENTION: NOVEL RAB PROTEIN
;; NUMBER OF SEQUENCES: 4
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Incyte Pharmaceuticals, Inc.
;; STREET: 3174 Porter Drive
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94304
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSEQ for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/198,184
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/824,873
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Billings, Lucy J.
;; REGISTRATION NUMBER: 36,749
;; REFERENCE/DOCKET NUMBER: PF-0240 US
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 415-855-0555
;; TELEFAX: 415-845-4166
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1340 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; LIBRARY: PANCNOT04
;; CLONE: 738957
;; US-09-198-184-2

Query Match 10.9%; Score 292.6; DB 3; Length 1340;
Best Local Similarity 70.9%; Pred. No. 1.4e-56;
Matches 416; Conservative 0; Mismatches 169; Indels 2; Gaps 2;

QY 116 CTACGACCTCAGCGGCAAGGTGATGCTTCTGGGAGACACACGCGTCGGCAAAACATGTTT 175
Db 21 CTACGACGTCGCTTCAAGGTCATGCTGGTGGGACTCGGGTGGGGAAGACCTGTCT 80
QY 176 CTGA-TCCAAITCAAAGACGGGCTTCTCTCGGAACCTTCATAGCCACCGTCGGCA 234
Db 81 GCTGGTGGATTCAGGATGCTGCTTCTGGCGGGACCTTCATCTCCACCGT-AGCA 139
QY 235 TAGACTTCAGGAACAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 294
Db 140 TTGACTTCCGGAACAAAGTCTGGAGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 199
QY 295 ACACCGCTGGGACGAGGCTCCGAGCGCTCACCACCTGCTTATACAGAGATGCTCAGG 354
Db 200 ACACAGCTGGTCCAGGAGGCTTCCGAGCTGCTTACCATGCTTACCGGGATGCTCATG 259
QY 355 CCTTGTCTCTGTATGATGATCAGCAACAAATCTCTTTTCGACAACTAGGCGCTGGC 414
Db 260 CTCTGCTGCTCTACGATGTCACCAACAGGCTCTCTTTGACAACTCCAGGCTGGC 319
QY 415 TCACCTAGATTCATGATGATGCGGAGGAGCTGGTGTATGCTGTCTAGGCAACAAGG 474
Db 320 TGACCGAGATCCAGAGTACGCGCCACGACGAGCTGGCTGCTGTCTGGGGAACAAGG 379
QY 475 CGGATATGACGACGGAAGAGTATCCGCTTCCGAGACGAGAGACCTTGTGGCCAGGAGT 534

Db 380 TGGACTCTGCCATGAGCGTGTGTGAAGAGGGAGGAGCGGGAGAAAGCTGGCCCAAGGAGT 439
QY 535 ACGGTGTTCTCTCTCGAGACCAAGCAAGACTGCGCATCAATGTGAGCTTAGCCCTTC 594
Db 440 ATGACTGCGCTTCATGGAGACCAAGCCCAAGAGCGGCTCAAGCTGGACTTGGCCCTCA 499
QY 595 TGGCCATCGCCCAAGGAATGAATACCGGGCCGGGCATCAGCGGATGAGCCCAAGCTTC 654
Db 500 CAGCATAGCAAGAGAGTGTGAAGCAGCGCTCCATGAAGGCTCCAGCAGCGCGCTTC 559
QY 655 AGATCCAGACTATGTAGATCCCAAGAGAGCGCTCCAGCTGCTGC 701
Db 560 GGCTGCATGATTAGTTAAGAGGAGGCTCGAGGGGCTCTCTGCTGC 606

RESULT 5

US-09-798-096-10/c

; Sequence 10, Application US/09798096

; Patent No. 6399378

; GENERAL INFORMATION:

; APPLICANT: Donna T. Ward

; APPLICANT: Andrew T. Watt

; TITLE OF INVENTION: ANTISENSE MODULATION OF RECOL2 EXPRESSION

; FILE REFERENCE: RTS-0207

; CURRENT APPLICATION NUMBER: US/09/798, 096

; CURRENT FILING DATE: 2001-03-01

; NUMBER OF SEQ ID NOS: 89

; SEQ ID NO 10

; LENGTH: 99500

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

US-09-798-096-10

Query Match 7.2%; Score 193.4; DB 4; Length 99500;
Best Local Similarity 79.5%; Pred. No. 9.3e-34;
Matches 241; Conservative 0; Mismatches 61; Indels 1; Gaps 1;

QY 1525 TTTTGTGTTTTATTTTTTGAATGGAGCTCGTCTCTCGCCCAAGGCTGAGGTGCAGTAG 1584
Db 66170 TTTGTTTTGTTTTGTTGAGACAGAGTCTCACTCTCTCGCCCAAGGCTGAGGTGCAGTAG 66111
QY 1585 TGCATCTCGGCTCACATACAACTCTCCCTCGGGGCTCAAGCGATCCCTCCCACTCAG 1644
Db 66110 CACAATCTGGCTCACATACAACTCTCGCGCT-GGGTTCAAGCCATCTCTCGCTCAG 66052
QY 1645 CCGCCGAAGTAGTGGGACTATAGGTGTACCATCACACTGCGCTAATTTTGTATTTT 1704
Db 66051 CCTCCCAAGTAGTGGGATTATGGATCCCAACCATCGCGCCAGCTAATTTTGTATTTT 65992
QY 1705 TTGTAGACACAGGTTTCGCGCATGTTCCCGAGGCTGTCTTGAATTCCTGAGCTCAAGCA 1764
Db 65991 TAGTAGACACAGATTTCACATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAGCA 65932
QY 1765 ACCTGCGGCTCGGCTCCCAAGTACTGGGATTACACGAGCAAGCAACCATGCCCAGG 1824
Db 65931 ATCCATTGCTTGGCTTCCCAAGTCTGGGATTACAGGATGAGCCACCGGCGCCAGC 65872
QY 1825 CTA 1827
Db 65871 CTA 65869

RESULT 6

US-08-781-891-79/c

; Sequence 79, Application US/08781891

; Patent No. 6090620

; GENERAL INFORMATION:

; APPLICANT: Fu, Ying-Hui

; APPLICANT: Yu, Chang-En

; APPLICANT: Oshima, Junko

; APPLICANT: Mulligan, John T.

; APPLICANT: Schellenberg, Gerald D.
; TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
; NUMBER OF SEQUENCES: 209
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/781,891
; FILING DATE: 27-DEC-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 6090620tenburg Ph.D., Carol
; REGISTRATION NUMBER: 39,317
; REFERENCE/DOCKET NUMBER: 240052.419
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 79:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 87350 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-781-891-79

Query Match 7.2%; Score 193.2; DB 3; Length 87350;
Best Local Similarity 79.9%; Pred. No. 9.9e-34;
Matches 239; Conservative 0; Mismatches 59; Indels 1; Gaps 1;

QY 1525 TTTTGTGTTTTATTTTTTGAATGGAGCTCGTCTCTCGCCCAAGGCTGAGGTGCAGTAG 1584
Db 42283 TTTTGTGTTTTATTTTTTGAATGGAGCTCGTCTCTCTCGCCCAAGGCTGAGGTGCAGTAG 42224
QY 1585 TGCATCTCGGCTCACATACAACTCTCCCTCGGGGCTCAAGCGATCCCTCCCACTCAG 1644
Db 42223 CACAATCTTGACTGACTGCAACCTCCACCTCCT-GGGTTCAAGCAATCTCTCGCTCAG 42165
QY 1645 CCGCCGAAGTAGTGGGACTATAGGTGTGTACCATCACACTGCGCTAATTTTGTATTTT 1704
Db 42164 CCTCCTGAATAGCTGGGATTACAGGCAACCAACACCGCCAGCTAATTTTGTACTTTT 42105
QY 1705 TTGTAGACACAGGTTTTCGCGCATGTTGCCAGGCTGCTTGAATTCCTGAGCTCAAGCA 1764
Db 42104 TAGTAGAAGAGGAGTTTTCATCATGTTGGCCAGGCTGTGAACTCTGACCTCAAGTG 42045
QY 1765 ACCTGCGGCTCGGCTCCCAAGTACTGGGATTACACGAGCAAGGCAACCATGCCCAG 1823
Db 42044 ATCTGCTGCTCGGCTCCCAAGTACTGGGATTACAGGCTGAGCCACCATGCCCAG 41986

RESULT 7

US-09-791-211-3/c

; Sequence 3, Application US/09791211

; Patent No. 6448080

; GENERAL INFORMATION:

; APPLICANT: Donna T. Ward

; APPLICANT: Andrew T. Watt

; TITLE OF INVENTION: ANTISENSE MODULATION OF WRN EXPRESSION

; FILE REFERENCE: RTS-0205

; CURRENT APPLICATION NUMBER: US/09/791,211

; CURRENT FILING DATE: 2001-02-23

; NUMBER OF SEQ ID NOS: 90

; SEQ ID NO 3

LENGTH: 87543
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: unsure
LOCATION: 7421
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 7427
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 11609
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 12605
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 12742
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 29370
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 29422
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 29979
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 29980
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 29981
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 30136
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 30140
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 31205
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 31206
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 31592
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 33095
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 33160
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 34066
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 34072
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 36816
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 39020
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 42164
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 42459
OTHER INFORMATION: unknown

NAME/KEY: unsure
LOCATION: 46808
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 46823
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 46826
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 47291
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 52786
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 52787
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 53384
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 54684
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 59215
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 59235
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 59242
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 63290
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 66614
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 68660
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 68697
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 68718
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 68733
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 68739
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 69785
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 79134
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 79198
OTHER INFORMATION: unknown
NAME/KEY: unsure
LOCATION: 86336
OTHER INFORMATION: unknown
OTHER INFORMATION:
US-09-791-211-3

Query Match 7.2%; Score 193.2; DB 4; Length 87543;
Best Local Similarity 79.9%; Pred. No. 9.9e-34;
Matches 239; Conservative 0; Mismatches 59; Indels 1; Gaps 1;

QY 1525 TTTTGTATTTTATTTTGAATGGAGTCTCGTTCTGTCGCCAGGCTGAGGTGACAGTAG 1584
Db 42476 TTTTGTATTTTATTTTNGAGACAGAGTCTCGCTCTCTCCAGGCTGAAGTGCAGTGG 42417
QY 1585 TGCATCTCCGCTCACTACACCTCCACTCCCTGGGGCTCAAGGATCTCCACCTCAG 1644
Db 42416 CACAATCTTGACATCACTGCAACCTCCACCTCCT-GGGTTCAAGCAATTCCTCGCTCAG 42358
QY 1645 CCGCCGAAGTAGCTGGGACTATAGGTGTACCATCACACTGGCTAAATTTTGTATTTT 1704
Db 42357 CTCCTGAATAGCTGGGATTACAGGCACCAACACAGCCAGCTAAATTTTGTACTTT 42298
QY 1705 TTGTAGACACAGGTTTCGCCATTTGCCAGGCTGGTCTTGAATTCCTGAGCTCAAGCA 1764
Db 42297 TAGTAAACCGGATTTTCATCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAGTG 42238
QY 1765 ACCTGCGGCTCGGCTCCCAAGTACTGGGATTACAGCAGAGGACCACTGCCAG 1823
Db 42237 ATCTGCTGCTCGGCTCCCAAGTCTGGGATTACAGGCGTGAGCCACCATGCCAG 42179
RESULT 8
US-09-167-681-45/c
; Sequence 45, Application US/09167681A
; Patent No. 6265561
; GENERAL INFORMATION:
; APPLICANT: Weinshilboum, M.D., Richard M.
; APPLICANT: Raftogiannis, Rebecca B.
; APPLICANT: Wood, Thomas C.
; APPLICANT: Ottewill, Diane M.
; TITLE OF INVENTION: SULFOTRANSFERASE SEQUENCE VARIANTS
; FILE REFERENCE: 07039/118001
; CURRENT APPLICATION NUMBER: US/09/167,681A
; CURRENT FILING DATE: 1998-10-07
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 847
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (4361)...(4507)
; NAME/KEY: CDS
; LOCATION: (4612)...(4737)
; NAME/KEY: CDS
; LOCATION: (4827)...(4925)
; NAME/KEY: CDS
; LOCATION: (6322)...(6447)
; NAME/KEY: CDS
; LOCATION: (6543)...(6638)
; NAME/KEY: CDS
; LOCATION: (7137)...(7316)
; NAME/KEY: CDS
; LOCATION: (7439)...(7553)
US-09-167-681-45

Query Match 7.2%; Score 192.8; DB 4; Length 8453;
Best Local Similarity 75.3%; Pred. No. 5.7e-34;
Matches 253; Conservative 0; Mismatches 82; Indels 1; Gaps 1;

QY 1525 TTTTGTATTTTATTTTGAATGGAGTCTCGTTCTGTCGCCAGGCTGAGGTGACAGTAG 1584
Db 2562 TTTTCTTTTATTTATGTGAGTGGAGACTCGTCTCTCGCCAGGCTGCAATGCAGTAG 2503
QY 1585 TGCATCTCCGCTCACTACACCTCCACTCCCTGGGGCTCAAGGATCTCCACCTCAG 1644
Db 2502 CACGATCTCCGCTCACTGTAACCTCCCTCCT-GGGTTCAAGCGATTCTCTGCCCTCAG 2444
QY 1645 CCGCCGAAGTAGCTGGGACTATAGGTGTACCATCACACTGGCTAAATTTTGTATTTT 1704
Db 2443 CTTCCCGAGTAGTGGGATTACAGGTGACAGCCACCATCCGGTTAATTTTGTATTTT 2384

QY 1705 TTGTAGACACAGGTTTTCGCCATGTTGCCAGGCTGTTGAATTCCTGAGCTCAAGCA 1764
Db 2383 TAGTAGACAGGCTTTTTCGCCATGTTGGCCAGGCTGCTCTCAAACTCCTGAGCTCAGATG 2324
QY 1765 ACCTGCGGGCTCGGCTCCCAAGTACTGGGATTACAGCAGAGGACCACTGCCAGG 1824
Db 2323 ATCCGCGGCTCGGCTCCCAAGTCTGAGATTACAGGATGAGCCACCATGCTCTGGC 2264
QY 1825 CTAGATGTGCTTATCCCAATCTTTTGGCAGGCAATG 1860
Db 2263 CGACAAGCTTTCTCTAATTGACCAGCAAGGAGG 2228

RESULT 9

US-09-741-150-3/c
; Sequence 3, Application US/09741150
; Patent No. 6436689
; GENERAL INFORMATION:
; APPLICANT: GUEGLER, Karl et al
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: CL000968
; CURRENT APPLICATION NUMBER: US/09/741,150
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 112132
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(112132)
; OTHER INFORMATION: n = A,T,C or G
US-09-741-150-3

Query Match 7.2%; Score 192.4; DB 4; Length 112132;
Best Local Similarity 78.4%; Pred. No. 1.6e-33;
Matches 243; Conservative 0; Mismatches 66; Indels 1; Gaps 1;

QY 1526 TTTTGTATTTTATTTTGAATGGAGTCTCGTTCTGTCGCCAGGCTGAGGTGACAGTAGT 1585
Db 97233 TTTTATTTTATTTTGGAGACAGGCTTGTCTGTCCACCCAGGCTGGAATGCAGTGGC 97174
QY 1586 GCAATCTCCGCTCACTACACCTCCACTCCCTGGGGCTCAAGCGATCCTCCACCTCAGC 1645
Db 97173 GTGATCTTGGCTCATTTGCAACCTCC-GTCTCCCAAGGCTCAAGTGATCCTCCACCTCAGC 97115
QY 1646 CGCCGAAGTAGCTGGGACTATAGGTGTACCATCACACCTGGCTAAATTTTGTATTTT 1705
Db 97114 CTCCAAGTAGTGTGACTACAGGCATAAGCCACCCAGCTAAATTTTGTATTTT 97055
QY 1706 TGTAGACACAGGTTTCGCCATGTTGCCAGGCTGGTCTTTGAATTCCTGAGCTCAAGCAA 1765
Db 97054 TGTAGAGAAGGATTTTGGCTGTGCGCCAGGCTGGTCTTGAACCTCCACAGCTCAAGCAA 96995
QY 1766 CTGCGCGGCTCGGCTCCCAAGTACTGGGATTACAGCAGAGGACCACTGCCAGGC 1825
Db 96994 TCCACCTGCTCAGCCTCCCAAGTGTGGGATTACAGGATGAGCCACCGCCGCGCCAGCC 96935
QY 1826 TAGATGTGTC 1835
Db 96934 TGGATATTC 96925

RESULT 10

US-08-816-617A-1
; Sequence 1, Application US/08816617A
; Patent No. 6022741
; GENERAL INFORMATION:
; APPLICANT: Ting, Jenny P.-Y.
; APPLICANT: Piskurich, Janet

```

; TITLE OF INVENTION: No. 6022741el Regulatory Genetic DNA that
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 6022741th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,617A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5470-143
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-420-2200
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6678 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-816-617A-1

Query Match 7.2%; Score 192.2; DB 3; Length 6678;
Best Local Similarity 77.8%; Pred. No. 7.2e-34;
Matches 245; Conservative 0; Mismatches 68; Indels 2; Gaps 1;

QY 1525 TTTTGTGTTTATTTTGAATGGAGTCTGCTGTCGCCAGGCTCAGGTGAGTAG 1584
DB 3043 TTTTGTGTTTATTTTGAATAGAGTCTGCTGTAAGCCAGGCTGGAGTGAGTAG 3102

QY 1585 TGCAATCTCCGCTCACT--ACAACCTCCACTCCCTGGGGCTCAAGGATCCCTCCACCTC 1642
DB 3103 TGTGATCTCGGCTCACTTGCACCTCCACTCCCTCCAGGTTCAAGCAATCTCTCCCTCC 3162

QY 1643 AGCCGCCGAGTAGCTGGGACTATAGGTGTACCATCATCAGCTGGCTAAATTTTGTATT 1702
DB 3163 AGCCTCCCAAGTAACCTGGGATTACAGGCTGCACCACTGAGTAAATTTTCTATT 3222

QY 1703 TTTTGTAGACACAGGTTTTCGCCATGTTGCCAGGCTGCTTGAATTCCTGAGCTCAAG 1762
DB 3223 TTTAGTAGACAGAGGTTTTCACCATGTTGCCAGGCTGTTTGAATTCCTGACCTCAGG 3282

QY 1763 CAACCTCCCGGCTCGGCTCCCAAGTACTGGGATTACAGCAGAGGACCATGCCCCA 1822
DB 3283 TGATCCGCCGCTCAGTCTCTAAAGTGTGAGATTACAGGCTGAGCCACACGCCCG 3342

QY 1823 GGCTAGATGTGCTT 1837
DB 3343 GCGTCGAGGAGTCTT 3357

RESULT 11
US-09-449-218D-18
; Sequence 18, Application US/09449218D
; Patent No. 6395511
; GENERAL INFORMATION:
; APPLICANT: Brunkow, Mary E.
; APPLICANT: Galas, David J.
; APPLICANT: Kovacevich, Brian
; APPLICANT: Mulligan, John T.

```

```

; APPLICANT: Paepier, Bryan W.
; APPLICANT: Van Ness, Jeffrey
; APPLICANT: Winkler, David G.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR INCREASING
; TITLE OF INVENTION: BONE MINERALIZATION
; FILE REFERENCE: 240083.508
; CURRENT APPLICATION NUMBER: US/09/449,218D
; CURRENT FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 18
; LENGTH: 9301
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-449-218D-18

Query Match 7.2%; Score 192.2; DB 4; Length 9301;
Best Local Similarity 77.4%; Pred. No. 8e-34;
Matches 233; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 1525 TTTTGTGTTTATTTTGAATGGAGTCTGCTGTCGCCAGGCTGAGGTGAGTAG 1584
DB 6477 TGTGTTGTTTGTGTTGAGACAGAGTCTGCTCTATTGCCAGGCTGGAGTGAGTGT 6536

QY 1585 TGCAATCTCCGCTCACTACACCTCCACTCCCTGGGGCTCAAGCGATCCTCCACCTCAG 1644
DB 6537 CACAATCTCGGCTTACTGCAACTTCTGCTTCCCGGATTCAAGTGATTCTCCTGCTCAG 6596

QY 1645 CGCGCGAAGTAGCTGGACTATAGGTGTACCATCATCACACTGGCTAAATTTTGTATT 1704
DB 6597 CTTCCAGAGTAGCTGGGATTACAGGTGGTGGCCACGCTGGCTAAATTTTGTATT 6656

QY 1705 TTGTAGACACAGGTTTTCGCCATGTTGCCAGGCTGGTCTTGAATTCCTGAGCTCAAGCA 1764
DB 6657 TGATAGACAGGTTTTCACCATGTTGGCCAGGCTAGTCTGCAACTCTTGACCTCAAGTG 6716

QY 1765 ACCTCGCGGCTCGGCTCCCAAGTACTGGGATTACAGCAGAGGACCATGCCCCAGG 1824
DB 6717 ATCTGCTGCTCGGCTCCCAAGTGTGGGATTACAGGCTGAGCCACACCCAGC 6776

QY 1825 C 1825
DB 6777 C 6777

RESULT 12
US-08-814-095-7/c
; Sequence 7, Application US/08814095
; Patent No. 6025183
; GENERAL INFORMATION:
; APPLICANT: Soreq, Hermona
; APPLICANT: Zakut, Haim
; APPLICANT: Shani, Moshe
; TITLE OF INVENTION: TRANSGENIC ANIMAL ASSAY SYSTEM FOR
; TITLE OF INVENTION: ANTI-CHOLINESTERASE SUBSTANCES
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: KOHN & ASSOCIATES
; STREET: 30500 No. 6025183thwestern Highway, Suite 410
; CITY: Farmington Hills
; STATE: Michigan
; COUNTRY: U.S.
; ZIP: 48334
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/814,095
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:

```

```
; NAME: Montgomery, Ilene N.
; REGISTRATION NUMBER: 38,972
; REFERENCE/DOCKET NUMBER: 2391.00066
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (248) 539-5050
; TELEFAX: (248) 539-5055
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 35060 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Cosmid including ACHE
; DESCRIPTION: promoter, ACHE gene and ARS gene"
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: 7q22
; FEATURE:
; NAME/KEY: promoter
; LOCATION: 4089..22464
; OTHER INFORMATION: /function= "ACHE Promotor"
; OTHER INFORMATION: /standard_name= "ACHE Promotor"
; FEATURE:
; NAME/KEY: exon
; LOCATION: 22465..22537
; OTHER INFORMATION: /function= "non-translated"
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 1
; FEATURE:
; NAME/KEY: exon
; LOCATION: 24090..25177
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /function= "{translation start:
; OTHER INFORMATION: 24110}"
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 2
; FEATURE:
; NAME/KEY: exon
; LOCATION: 25524..26009
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 3
; FEATURE:
; NAME/KEY: exon
; LOCATION: 27005..27274
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 4
; FEATURE:
; NAME/KEY: exon
; LOCATION: 27255..28007
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 5
; FEATURE:
; NAME/KEY: terminator
; LOCATION: 27385..27387
; FEATURE:
; NAME/KEY: exon
; LOCATION: 28008..28129
; IDENTIFICATION METHOD: experimental
; OTHER INFORMATION: /evidence= EXPERIMENTAL
; OTHER INFORMATION: /gene= "ACHE"
; OTHER INFORMATION: /number= 6
; NAME/KEY: terminator
; LOCATION: 28129..28131
; FEATURE:
; NAME/KEY: exon
; LOCATION: 34528..34895
; OTHER INFORMATION: /function= "arsenite resistance
; OTHER INFORMATION: gene"
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 1
; FEATURE:
; NAME/KEY: exon
; LOCATION: 34092..34358
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 2
; FEATURE:
; NAME/KEY: exon
; LOCATION: 33779..33963
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 3
; FEATURE:
; NAME/KEY: exon
; LOCATION: 33493..33591
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 4
; FEATURE:
; NAME/KEY: exon
; LOCATION: 33297..33408
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 5
; FEATURE:
; NAME/KEY: exon
; LOCATION: 32959..33094
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 6
; FEATURE:
; NAME/KEY: exon
; LOCATION: 32569..32628
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 7
; FEATURE:
; NAME/KEY: exon
; LOCATION: 32386..32468
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 8
; FEATURE:
; NAME/KEY: exon
; LOCATION: 31894..32080
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 9
; FEATURE:
; NAME/KEY: exon
; LOCATION: 31363..31534
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 10
; FEATURE:
; NAME/KEY: exon
; LOCATION: 31131..31284
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 11
; FEATURE:
; NAME/KEY: exon
; LOCATION: 30816..31011
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 12
; FEATURE:
; NAME/KEY: exon
; LOCATION: 30470..30626
; OTHER INFORMATION: /gene= "AR"
; OTHER INFORMATION: /number= 13
; FEATURE:
; NAME/KEY: exon
; LOCATION: 30187..30274
; OTHER INFORMATION: /gene= "AR"
```

Query Match	7.2%	Score 192.2	DB 4	Length 9884
Best Local Similarity	79.0%	Pred. No. 1.7e-33		
Matches 241	Conservative 0	Mismatches 63	Indels 1	Gaps 1
Qy 1526	TTTGTTTTTAATTTTTGAAATGGAGTCTGTTCTGCGCCAGGCTGAGGTGCAGTAGT	1595		
Db 2480	TTTTTTTTTTTTTTTGGAGATGGCGTCTACTCCGTTGGCCAGGAGGATGCAGTGGT	2539		
Qy 1586	GCATCTTCGGCTCACTACACCTCCATCCCTGGGGCTCAGCGCATCCTCCACCTCAGC	1645		
Db 2540	GCCATCTCAGCTCACTGCAACTCCGGCTCCT-AGGTTCAAGCGGATTCTCTCGCTCAGC	2598		
Qy 1646	CGCCGAAGTAGCTGGGACTATAGTGTGTACCATCACCTGGCTAAATTTTGTATTTTT	1705		
Db 2599	CTTCTGACTATGCTGGGATTTACAGGAGGTGCCACATGCCCTGGCTAAATTTTGGTATTTTT	2658		
Qy 1706	TGTAGACACAGGGTTTCGCCATGTTCGCCAGGCTGGTCTTGAATTCCTGAGCTCAAGCAA	1765		
Db 2659	AGTAGAGCGGAGTTTAAACATGTTGTCAGGCTGGTCTTGAACCTCTGAACTTAACTGA	2718		
Qy 1766	CCTCGCGSCCTCGGCCCTCCCAAGTACTTGGGATTACAGCGAGAGCACCATGCCCCAGGC	1825		
Db 2719	TCCGCCGCCCTTGCCCTCCCAAGTGTGTGGGATTACAGGCGATGAGCCACCAACCCAGCC	2778		
Qy 1826	TAGAT 1830			
Db 2779	TAAAT 2783			

```

RESULT 14
US-09-729-995-3/c
; Sequence 3, Application US/09729995
; Patent No. 6426206
; GENERAL INFORMATION:
; APPLICANT: WEI, Ming-Hui et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL000904
; CURRENT APPLICATION NUMBER: US/09/729,995
; CURRENT FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 29629
; TYPE: DNA
; ORGANISM: Human
US-09-729-995-3

Query Match          7.2%; Score 191.4; DB 4; Length 29629;
Best Local Similarity 76.3%; Pred. No. 1.8e-33;
Matches 248; Conservative      0; Mismatches 76; Indels 1; Gaps 1;

Qy    1524 GTTTTGTATTTTTTTGAAATTGGAGTCCTGTTCTCTGCGCCCAGGCTGAGGTGCACGTA 1583
Db    11930 GTTTTGTATTTTTTTTGACACAGAGTCCTCACTCTGCCCCAGGCTGGAGTGCANTG 11871

Qy    1584 GTGCAATCTCGCGCTCACATACAACTCCACTCCCTGGGGGCTCAAGCGATCTCTCCCACTCA 1643
Db    11870 GCGTGATCTCGGCTCACATGCAAGCTCCAC-CTCCCAGGTTCAAGAGATTCCTCCGCCCTCA 11812

```


Db 241 TCAGGAACAGGTGGTACTGTGTGATGGCTGAGAGTGAAGCTGCAGATCTGGGACACCG 300
 Qy 301 CTGGGAGGAACGGTTCCGAAGCGTCAACCATGCTTATTACAGAGATGCTCAGGCGCTTGC 360
 Db 301 CTGGGAGGAACGGTTCCGAAGCGTCAACCATGCTTATTACAGAGATGCTCAGGCGCTTGC 360
 Qy 361 TTCTGCTGTATGACATCACCAACAATCTCTTTCACACACATCAGGCGCTGGCTCAGTG 420
 Db 361 TTCTGCTGTATGACATCACCAACAATCTCTTTCACACACATCAGGCGCTGGCTCAGTG 420
 Qy 421 AGATTATGATGATGCCAGAGGAGCTGGTATCATGCTGTAGTGTAGCAACAAGCGGATA 480
 Db 421 AGATTATGATGATGCCAGAGGAGCTGGTATCATGCTGTAGTGTAGCAACAAGCGGATA 480
 Qy 481 TGAGCAGCGAAGAGTATCCGTTCCGAAGACGAGAGACCTTGGCCAGGGAGTAGCGTG 540
 Db 481 TGAGCAGCGAAGAGTATCCGTTCCGAAGACGAGAGACCTTGGCCAGGGAGTAGCGTG 540
 Qy 541 TTCCCTTCTCTGGAGACGAGCGCCAAAGACTGGCATGAATGTGGAGTTAGCCTTTCTGGCCA 600
 Db 541 TTCCCTTCTCTGGAGACGAGCGCCAAAGACTGGCATGAATGTGGAGTTAGCCTTTCTGGCCA 600
 Qy 601 TCGCCAAGGAACCTGAATACCGGGCGGGGCATCAGGCGGATGAGCCAGCTTCCAGATCC 660
 Db 601 TCGCCAAGGAACCTGAATACCGGGCGGGGCATCAGGCGGATGAGCCAGCTTCCAGATCC 660
 Qy 661 GAGACTATGTAGAGTCCCAAGAGAGCGCTCCAGCTGCTCTTTCATGTGAATCCAG 720
 Db 661 GAGACTATGTAGAGTCCCAAGAGAGCGCTCCAGCTGCTCTTTCATGTGAATCCAG 720
 Qy 721 GGGCAGAGAGGAGCTCTGGAGCAGACAGGATGAGCCTTCCCTCCAGGCGCTTGC 780
 Db 721 GGGCAGAGAGGAGCTCTGGAGCAGACAGGATGAGCCTTCCCTCCAGGCGCTTGC 780
 Qy 781 TTATTCAGAGGCTGAGCCAATGGGGAGAAAGATGAGAGACTCAGTGCACAGCCGCTTC 840
 Db 781 TTATTCAGAGGCTGAGCCAATGGGGAGAAAGATGAGAGACTCAGTGCACAGCCGCTTC 840
 Qy 841 CTACAGGGAGCTATCTCAACTCTCTTACTTGTAGTTCTCGGCTCTCCGCGCATCCACAG 900
 Db 841 CTACAGGGAGCTATCTCAACTCTCTTACTTGTAGTTCTCGGCTCTCCGCGCATCCACAG 900
 Qy 901 GGAGGGTAAACACTTACCTTTTATTTAATAGTACATAATTTAATACCAAAAAGCGC 960
 Db 901 GGAGGGTAAACACTTACCTTTTATTTAATAGTACATAATTTAATACCAAAAAGCGC 960
 Qy 961 CTGATCCCCAAAACCGAGGCTGGAGCTAGTGGCCCTTTGCTTCTAGGACTTGGG 1020
 Db 961 CTGATCCCCAAAACCGAGGCTGGAGCTAGTGGCCCTTTGCTTCTAGGACTTGGG 1020
 Qy 1021 GGGCGGCGCTTCCCTCTTAAGCATAAACAAGGTGGTGTGCTCCAGCTCAGCCCGAGGG 1080
 Db 1021 GGGCGGCGCTTCCCTCTTAAGCATAAACAAGGTGGTGTGCTCCAGCTCAGCCCGAGGG 1080
 Qy 1081 ACACAGATGCACTTTGGGGGTGAGGGAGGTAATGACTCCATCCGACCCCTCAGTTACGT 1140
 Db 1081 ACACAGATGCACTTTGGGGGTGAGGGAGGTAATGACTCCATCCGACCCCTCAGTTACGT 1140
 Qy 1141 GGACAGAGGCTCAGGTGACCCCGCTTCACTGTCTCCGCTCTCCAGGAGCTTATCTTC 1200
 Db 1141 GGACAGAGGCTCAGGTGACCCCGCTTCACTGTCTCCGCTCTCCAGGAGCTTATCTTC 1200
 Qy 1201 GCCCATCTCCAAATAGTGGGCGCTTGTGCTGTGAGGAAGACCAAGCCTCAGGGAAG 1260
 Db 1201 GCCCATCTCCAAATAGTGGGCGCTTGTGCTGTGAGGAAGACCAAGCCTCAGGGAAG 1260
 Qy 1261 ATAAGAGATATGGAGATGGAGGGGAGGAGCAAGGGGAGAGTAGGGTCTAGCTGGCT 1320
 Db 1261 ATAAGAGATATGGAGATGGAGGGGAGGAGCAAGGGGAGAGTAGGGTCTAGCTGGCT 1320
 Qy 1321 ATCTCTGGCCTTACTTAACACCCCTCTGGAGCATGCCCTTTTCTCCAGCACACAAGCAC 1380
 Db 1321 ATCTCTGGCCTTACTTAACACCCCTCTGGAGCATGCCCTTTTCTCCAGCACACAAGCAC 1380

Qy 1381 ATTGGGGCACCTGGAAATATTGTTTCCAGGCTCCTGTCTCTGGACTTCAGATCCTGGGG 1440
 Db 1381 ATTGGGGCACCTGGAAATATTGTTTCCAGGCTCCTGTCTCTGGACTTCAGATCCTGGGG 1440
 Qy 1441 GAGCCCTCTCCCGCTCTGAATCCCTGGCTTAGCTACCTTCCTGCCTGTGCACCTAAAAC 1500
 Db 1441 GAGCCCTCTCCCGCTCTGAATCCCTGGCTTAGCTACCTTCCTGCCTGTGCACCTAAAAC 1500
 Qy 1501 CTCAGGTGAGAACTAGGAAAAGAGTTTGTATTTTATTTTGAATGGAGTCTGTTCT 1560
 Db 1501 CTCAGGTGAGAACTAGGAAAAGAGTTTGTATTTTATTTTGAATGGAGTCTGTTCT 1560
 Qy 1561 GTCCGCCAGGCTGAGGTGAGTAGTGCATCTCCGCTCAGTACAACTCCACTCCCTGGG 1620
 Db 1561 GTCCGCCAGGCTGAGGTGAGTAGTGCATCTCCGCTCAGTACAACTCCACTCCCTGGG 1620
 Qy 1621 GGTCAAGCGATCCTCCACCTCAGCGCGGAGTAGTGGGACTATAGTGTTGTACCATC 1680
 Db 1621 GGTCAAGCGATCCTCCACCTCAGCGCGGAGTAGTGGGACTATAGTGTTGTACCATC 1680
 Qy 1681 ACACCTGGCTAATTTTGTATTTTGTAGACACAGGGTTTCGCCATGTTGCCAGGCTG 1740
 Db 1681 ACACCTGGCTAATTTTGTATTTTGTAGACACAGGGTTTCGCCATGTTGCCAGGCTG 1740
 Qy 1741 GTCTTGAATTCCTGAGCTCAAGCAACCTCGCGGCTCGGCCCTCCCAAACTACTGGGATTA 1800
 Db 1741 GTCTTGAATTCCTGAGCTCAAGCAACCTCGCGGCTCGGCCCTCCCAAACTACTGGGATTA 1800
 Qy 1801 CAGCGAAGGACCACTGCCAGGCTAGATGTCTTATCCCAATCCTTTGGCAGGCAATG 1860
 Db 1801 CAGCGAAGGACCACTGCCAGGCTAGATGTCTTATCCCAATCCTTTGGCAGGCAATG 1860
 Qy 1861 CAGCTCCACAGGCGATTCTTCAAGCAGCTGAAGTGTGTTGGAATGTGTTGAAAAAAGAGAAATCCC 1920
 Db 1861 CAGCTCCACAGGCGATTCTTCAAGCAGCTGAAGTGTGTTGGAATGTGTTGAAAAAAGAGAAATCCC 1920
 Qy 1921 AGATAAGGAGAAATCCCTTTCTCTAGGTTTGGAAATGTGTTGAAAAAAGAGAAATCCC 1980
 Db 1921 AGATAAGGAGAAATCCCTTTCTCTAGGTTTGGAAATGTGTTGAAAAAAGAGAAATCCC 1980
 Qy 1981 TGCTCTCTGGAGCTGGGGAGACAAAGATTAAAGCAACCTCCCTGCATGTATCCCTTT 2040
 Db 1981 TGCTCTCTGGAGCTGGGGAGACAAAGATTAAAGCAACCTCCCTGCATGTATCCCTTT 2040
 Qy 2041 GACCCCAAGCTCTGCTCTCTCCCTGACCCCATGCCCTTTCTTTAACTTCTCAAAACAG 2100
 Db 2041 GACCCCAAGCTCTGCTCTCTCCCTGACCCCATGCCCTTTCTTTAACTTCTCAAAACAG 2100
 Qy 2101 ATACAGGGCTTAACTGTCTTTACCTCCCTCTACTGAGTCAGGTTAGTGGTGGAGG 2160
 Db 2101 ATACAGGGCTTAACTGTCTTTACCTCCCTCTACTGAGTCAGGTTAGTGGTGGAGG 2160
 Qy 2161 TCACCCATTTCCGAGTTAAACCAATATGATGATGAAAAAAGTATGCGGTATGTC 2220
 Db 2161 TCACCCATTTCCGAGTTAAACCAATATGATGATGAAAAAAGTATGCGGTATGTC 2220
 Qy 2221 TGGGGTAGAGAGAGGGGTAGCAAGTTTCAATGTCTCTCTTTGGTCAATATCTCCCAAGC 2280
 Db 2221 TGGGGTAGAGAGAGGGGTAGCAAGTTTCAATGTCTCTCTTTGGTCAATATCTCCCAAGC 2280
 Qy 2281 TCTGATCCCTGCCATGGGAGTGGACAGGAAACATGAGTCAATGACCTGCAGGCACTTTT 2340
 Db 2281 TCTGATCCCTGCCATGGGAGTGGACAGGAAACATGAGTCAATGACCTGCAGGCACTTTT 2340
 Qy 2341 ACTCAGCTCTGCCGCGCTGGAGGGGAGAGGGGAGGAGGAGTATGCGCTGCACATTT 2400
 Db 2341 ACTCAGCTCTGCCGCGCTGGAGGGGAGAGGGGAGGAGGAGTATGCGCTGCACATTT 2400
 Qy 2401 CTGAGGCTACTGCAATTTGCTTTTCAAGGCAGAAATCTTGTCTGTGAGCAGTCAAGGGTCCA 2460
 Db 2401 CTGAGGCTACTGCAATTTGCTTTTCAAGGCAGAAATCTTGTCTGTGAGCAGTCAAGGGTCCA 2460

Db 1572 TACAACCTCCACTCCCTGGGGCTCAAGCGATCTCCACCTCAGCCCCGAGTAGCTGG 1631
QY 1661 GACTATAGGTGTACCATCACACCTGGCTAATTTTGTATTTTGTAGACACAGGTT 1720
Db 1632 GACTATAGGTGTACCATCACACCTGGCTAATTTTGTATTTTGTAGACACAGGTT 1691
QY 1721 TCGCATGTTCGCCAGGCTGCTTGAATTCCTGAGCTCAAGCAACCTCGCGGCTCGGC 1780
Db 1692 TCGCATGTTCGCCAGGCTGCTTGAATTCCTGAGCTCAAGCAACCTCGCGGCTCGGC 1751
QY 1781 CTCCTAAAGTACTGGGATTTACAGCAGAGGACCATGCCAGGCTAGATGTCTTATC 1840
Db 1752 CTCCTAAAGTACTGGGATTTACAGCAGAGGACCATGCCAGGCTAGATGTCTTATC 1811
QY 1841 CCATCCTTTGGCAGGCTGAGCTCCACAGCGGATTTCTTCAAGCAGCTGAAGTGTTA 1900
Db 1812 CCATCCTTTGGCAGGCTGAGCTCCACAGCGGATTTCTTCAAGCAGCTGAAGTGTTA 1871
QY 1901 GCCTCCTGGTTAAGAGCCAGATAGGAGAAATCCCTTCTAGTGTGGAAATGTGTG 1960
Db 1872 GCCTCCTGGTTAAGAGCCAGATAGGAGAAATCCCTTCTAGTGTGGAAATGTGTG 1931
QY 1961 TG-AAAAAAAGAAATCCCTGGCTCTGAGCTGTGGGAGACAAAGATTAAGCAAC 2019
Db 1932 TGAATAAAGAAATCCCTGGCTCTGAGCTGTGGGAGACAAAGATTAAGCAAC 1991
QY 2020 TCCCTTGACATGTATCCCTTTGACCCCAAGCTCTGCCTCCCTGACCAACCATGCC 2079
Db 1992 TCCCTTGACATGTATCCCTTTGACCCCAAGCTCTGCCTCCCTGACCAACCATGCC 2051
QY 2080 TTCTTTAACTTCTCAACAGATACACAGGCTTAACTGCTTTACCTCCCTCTACTGA 2139
Db 2052 TTCTTTAACTTCTCAACAGATACACAGGCTTAACTGCTTTACCTCCCTCTACTGA 2111
QY 2140 GTCAGGTAGGTGGGAGGTACCCATTTCCGAGTTAAACCAATGCAATAGATGATA 2199
Db 2112 GTCAGGTAGGTGGGAGGTACCCATTTCCGAGTTAAACCAATGCAATAGATGATA 2171
QY 2200 ACAAGTCATGTGGGTATGCTGGGTAGAGAGGGGTAGCAAGTTCATGTCTCCT 2259
Db 2172 ACAAGTCATGTGGGTATGCTGGGTAGAGAGGGGTAGCAAGTTCATGTCTCCT 2231
QY 2260 TGGTACATATCTCCCAAGCTCTGATCCCTGCGCATGGGAAGTGGACAGAAACATGAG 2319
Db 2232 TGGTACATATCTCCCAAGCTCTGATCCCTGCGCATGGGAAGTGGACAGAAACATGAG 2291
QY 2320 TCATGACCTGCAGGCTCTTTACTGCAGCTCTGCCGCTGGAGGGGAGAGGGGAGGA 2379
Db 2292 TCATGACCTGCAGGCTCTTTACTGCAGCTCTGCCGCTGGAGGGGAGAGGGGAGGA 2351
QY 2380 AGAAGTATGGCTGCATTTCTGAGGCTACTGCATTTGCTTTCAAGGCAGAAATCTTC 2439
Db 2352 AGAAGTATGGCTGCATTTCTGAGGCTACTGCATTTGCTTTCAAGGCAGAAATCTTC 2411
QY 2440 TCTGAGCAGTACGGCTCCAGTTTGGGCCGATAGGAAGTTCCTCGTGGCTCCCTCA 2499
Db 2412 TCTGAGCAGTACGGCTCCAGTTTGGGCCGATAGGAAGTTCCTCGTGGCTCCCTCA 2471
QY 2500 GGCAGAGCAGGAGGAGCTGACATTCGAGCTCTTCTCGGCCCAAGGACAGTTGAC 2559
Db 2472 GGCAGAGCAGGAGGAGGCTGACATTCGAGCTCTTCTCGGCCCAAGGACAGTTGAC 2531
QY 2560 GAGATCCAAATCCCATAGACAGCTCTGGGCTCTTTCATTTGATTTTTCAGAAATTA 2619
Db 2532 GAGATCCAAATCCCATAGACAGCTCTGGGCTCTTTCATTTGATTTTTCAGAAATTA 2591
QY 2620 GCAGTATTTTGGAAAGCAAAAAA 2651
Db 2592 GCAGTATTTTGGAAAGCAAAAAA 2623

; Sequence 3, Application US/09817199A
; Patent No. US20020142380A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; FILE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001187
; CURRENT APPLICATION NUMBER: US/09/817,199A
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 13182
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(13182)
; OTHER INFORMATION: n = A,T,C or G
US-09-817-199A-3

Query Match 76.0%; Score 2031.8; DB 10; Length 13182;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2039; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 589 CTTTCTCGCCATCCCAAGAACTGAATACCGGGCCGGCATCAGCGGATGAGCCCA 648
Db 10060 CCATTGTCTCTTTCAGGGAACCTGAATACCGGGCCGGCATCAGCGGATGAGCCCA 10119
QY 649 GCTTCCAGATCCGAGCTATGTAGAGTCCAGAGAAAGCGCTCCAGCTGCTGCTCTTCA 708
Db 10120 GCTTCCAGATCCGAGCTATGTAGAGTCCAGAGAAAGCGCTCCAGCTGCTGCTCTTCA 10179
QY 709 TGTGAATCCAGGGGCGAGAGAGGCTCTGAGGCGCACACAGGATGAGCTTCCCT 768
Db 10180 TGTGAATCCAGGGGCGAGAGAGGCTCTGAGGCGCACACAGGATGAGCTTCCCT 10239
QY 769 CCCAGGCTGGCTTATTCAGAGGCTGAGCAATGGGGAGAAAGATGAGGACTCACTG 828
Db 10240 CCCAGGCTGGCTTATTCAGAGGCTGAGCAATGGGGAGAAAGATGAGGACTCACTG 10299
QY 829 CACAGCGCTTCTAGCAGGAGCTATCTCCAACTCTCTACTTGTAGTTCTCGGCTCC 888
Db 10300 CACAGCGCTTCTAGCAGGAGCTATCTCCAACTCTCTACTTGTAGTTCTCGGCTCC 10359
QY 889 CGCATCCACAGGAGGTTAAACACTTACCTTTTATTAATAGTACATAATTAATAC 948
Db 10360 CGCATCCACAGGAGGTTAAACACTTACCTTTTATTAATAGTACATAATTAATAC 10419
QY 949 CAAAAAGGCGCTGGATCCCAAAAACCGAGGCTGGGAGCTAGTGGCCCTTTTGCCTT 1008
Db 10420 CAAAAAGGCGCTGGATCCCAAAAACCGAGGCTGGGAGCTAGTGGCCCTTTTGCCTT 10479
QY 1009 CTAGGACTTGGGGGCGGCGCTCCCTCTAAGCATACAAAGGCTGTGCTCCAGCT 1068
Db 10480 CTAGGACTTGGGGGCGGCGCTCCCTCTAAGCATACAAAGGCTGTGCTCCAGCT 10539
QY 1069 CAGCCCCAGGGACACAGATGCACTTTGGGGGTAGGGCAGGTAAATGCTCATCGCAC 1128
Db 10540 CAGCCCCAGGGACACAGATGCACTTTGGGGGTAGGGCAGGTAAATGCTCATCGCAC 10599
QY 1129 CTAGTTAGCTGGACAGAGGCTCAGTGCACCCAGCTTCACTGTCTCCGCTCTCCAG 1188
Db 10600 CTAGTTAGCTGGACAGAGGCTCAGTGCACCCAGCTTCACTGTCTCCGCTCTCCAG 10659
QY 1189 GAGCTTATCTTCCGCCCATCTCCCAATAGTGGGCGCTTGTGCTGTGAGGAGACAAA 1248
Db 10660 GAGCTTATCTTCCGCCCATCTCCCAATAGTGGGCGCTTGTGCTGTGAGGAGACAAA 10719
QY 1249 GCCTCAGGGAAGATAAGAGATATGGAGATGGGAGGGGAGGACAAAGGGCAGAGTAGG 1308
Db 10720 GCCTCAGGGAAGATAAGAGATATGGAGATGGGAGGGGAGGACAAAGGGCAGAGTAGG 10779

Qy 1309 GTCTAGCTGGCTATCTCTGGCCCTTACTAACACCCCCCTGGAGGATGCCCTTTTCTCCA 1368
Db 10780 GTCTAGCTGGCTATCTCTGGCCCTTACTAACACCCCCCTGGAGGATGCCCTTTTCTCCA 10839
Qy 1369 GCACACAAGACATTTGGGGACCTTGGAAATATGTTTCCAGGCTCTGTTCTCTGGACTT 1428
Db 10840 GCACACAAGACATTTGGGGACCTTGGAAATATGTTTCCAGGCTCTGTTCTCTGGACTT 10899
Qy 1429 CAGATCTGGGGAGCCCTCTCCGCCCTGAATCCCTGGCTTACCTACCTTCTGGCTGT 1488
Db 10900 CAGATCTGGGGAGCCCTCTCCGCCCTGAATCCCTGGCTTACCTACCTTCTGGCTGT 10959
Qy 1489 GCACCTAAAAACCTCAGGTCAGAACTAGGAAAGAGTTTGTATTTTATTTTGGAAATG 1548
Db 10960 GCACCTAAAAACCTCAGGTCAGAACTAGGAAAGAGTTTGTATTTTATTTTGGAAATG 11019
Qy 1549 GAGTCTCGTTCTGTGGCCAGCTGAGGTGAGTGTGCAATCTCCGCTCACTACAACCT 1608
Db 11020 GAGTCTCGTTCTGTGGCCAGCTGAGGTGAGTGTGCAATCTCCGCTCACTACAACCT 11079
Qy 1609 CCACCTCCCTGGGCTCAAGCATCCTCCACCTCAGCCGCCGAAGTAGCTGGGACTATAG 1668
Db 11080 CCACCTCCCTGGGCTCAAGCATCCTCCACCTCAGCCGCCGAAGTAGCTGGGACTATAG 11139
Qy 1669 GTGTGTACCATCACACCTGGCTAAATTTTGTATTTTGTATTTTGTAGACACAGGTTTCCGCATG 1728
Db 11140 GTGTGTACCATCACACCTGGCTAAATTTTGTATTTTGTATTTTGTAGACACAGGTTTCCGCATG 11199
Qy 1729 TTGCCAGGCTGTGTTGAATCTCTAGCTCAAGCAACCTCGCCGCTCGGCCCTCCCAAA 1788
Db 11200 TTGCCAGGCTGTGTTGAATCTCTAGCTCAAGCAACCTCGCCGCTCGGCCCTCCCAAA 11259
Qy 1789 GTACTGGGATTACACGACAGGACCATGCCAGGCTAGATGTCTTATCCCAATCCT 1848
Db 11260 GTACTGGGATTACACGACAGGACCATGCCAGGCTAGATGTCTTATCCCAATCCT 11319
Qy 1849 TTGCCAGGCTAGCTCCACAGCGCATTTCTTCAACGACGTGAAGTGTGTAGCCCTCCT 1908
Db 11320 TTGCCAGGCTAGCTCCACAGCGCATTTCTTCAACGACGTGAAGTGTGTAGCCCTCCT 11379
Qy 1909 GGGTTAAGAGCCAGATGAAGAGAATCCCTTCTCTAGTGTGGAATGTGTGTAAGAAA 1968
Db 11380 GGGTTAAGAGCCAGATGAAGAGAATCCCTTCTCTAGTGTGGAATGTGTGTAAGAAA 11439
Qy 1969 AAGAGAATCCCTGGCTCCTGGAGCTGTGGAGACAAAGATTAAAGCAAACTCCCCCTGAC 2028
Db 11440 AAGAGAATCCCTGGCTCCTGGAGCTGTGGAGACAAAGATTAAAGCAAACTCCCCCTGAC 11499
Qy 2029 ATGTATCCCTTTGACCCCAAGCTGTGCTCCTCCTGACCAACCATGCCCTTTCCTTTAA 2088
Db 11500 ATGTATCCCTTTGACCCCAAGCTGTGCTCCTCCTGACCAACCATGCCCTTTCCTTTAA 11559
Qy 2089 CTTCTCAACAGATACACAGGCTTAACCTGTTTACCTCCCTCCTCTACTGAGTCAGGTTA 2148
Db 11560 CTTCTCAACAGATACACAGGCTTAACCTGTTTACCTCCCTCCTCTACTGAGTCAGGTTA 11619
Qy 2149 GGTGGTGGAGGTCAACCATTTCCGAGCTTAAACCAATGCAATAGTAAACAAAGTCA 2208
Db 11620 GGTGGTGGAGGTCAACCATTTCCGAGCTTAAACCAATGCAATAGTAAACAAAGTCA 11679
Qy 2209 TGTGGGTATGTCTGGGTAGAGAGGGGTAGCAAGTGTCTATGTCTCTCTTGTGTACAT 2268
Db 11680 TGTGGGTATGTCTGGGTAGAGAGGGGTAGCAAGTGTCTATGTCTCTCTTGTGTACAT 11739
Qy 2269 ATCTCCCAAGCTCTGTATCTCGCTGGAAGTGGACAGAAACATGAGGTCTATGACCT 2328
Db 11740 ATCTCCCAAGCTCTGTATCTCGCTGGAAGTGGACAGAAACATGAGGTCTATGACCT 11799
Qy 2329 GCAGGACATCTTACTGACGCTCTGCCGCTGGAGGGGAGAGGGGAGGAAGTATG 2388
Db 11800 GCAGGACATCTTACTGACGCTCTGCCGCTGGAGGGGAGAGGGGAGGAAGTATG 11859

Qy 2389 CGTGCACATTTCTGAGCTACTGCTATTTGCTTTCAAGGCAGAAATCTTGTCTGAGCAG 2448
Db 11860 CGTGCACATTTCTGAGCTACTGCTATTTGCTTTCAAGGCAGAAATCTTGTCTGAGCAG 11919
Qy 2449 TCAGCGGCTCAGTTTGGGCCCGATAGGAAGTTCTCGTGGCTTCCTCAGGCGAGACA 2508
Db 11920 TCAGCGGCTCAGTTTGGGCCCGATAGGAAGTTCTCGTGGCTTCCTCAGGCGAGACA 11979
Qy 2509 GGGAGGAGGCTGACATTCGCCAGTCTCTTCTGGGCCCAAGCAGGTTTCAGGAGATCCAA 2568
Db 11980 GGGAGGAGGCTGACATTCGCCAGTCTCTTCTGGGCCCAAGCAGGTTTCAGGAGATCCAA 12039
Qy 2569 TCCCATAGACAGCTCTGGGCCCTTTCGATTTTTCAGAAATTAACCTGCAGTATTT 2628
Db 12040 TCCCATAGACAGCTCTGGGCCCTTTCGATTTTTCAGAAATTAACCTGCAGTATTT 12099
Qy 2629 TGGAAAGCAAA 2639
Db 12100 TGGAAAGCACA 12110

RESULT 4
US-09-764-868-493
; Sequence 493, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PFT32
; CURRENT APPLICATION NUMBER: US/09/764,868
; PRIOR APPLICATION DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1510
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 493
; LENGTH: 1316
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1281)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (1299)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-764-868-493

Query Match 48.1%; Score 1286; DB 9; Length 1316;
Best Local Similarity 98.5%; Pred. No. 2.7e-218;
Matches 1286; Conservative 9; Mismatches 11; Indels 0; Gaps 0;
Qy 45 ACGGGCAGCCAGCGCGCGTGGCCACCGGGATGGCGAGGCCCGGAGCGCTCCCGGCC 104
Db 1 ACGGGCAGCCAGCGCGCGTGGCCACCGGGATGGCGAGGCCCGGAGCGCTCCCGGCC 60
Qy 105 TGCAGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCTCCGC 164
Db 61 TGCAGTCCGAGCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCTCCGC 120
Qy 165 AAAACATGTTTCTGTATCCAAATTCAAAGACGGGGCTTCCTGTCCGGAACCTTCATAGCC 224
Db 121 AAAACATGTTTCTGTATCCAAATTCAAAGACGGGGCTTCCTGTCCGGAACCTTCATAGCC 180
Qy 225 ACCCTCGCATAGACTTCAGGAACAAGTGTGTACTGTGGATGGCTGAGAGTGAAGCTG 284
Db 181 ACCCTCGCATAGACTTCAGGAACAAGTGTGTACTGTGGATGGCTGAGAGTGAAGCTG 240
Qy 285 CAGATCTGGACACCGCTGGCGAGGAAGGTTCCGAAGCGTCACCCATGCTTTATTACAGA 344
Db 241 CAGATCTGGACACCGCTGGCGAGGAAGGTTCCGAAGCGTCACCCATGCTTTATTACAGA 300
Qy 345 GATGCTCAGGCTTGTCTGTCTGTATGACATCACCAAAATCTTCTTTTCGACAACATC 404

Db 301 GATGCTCAGGCGCTTGCTTCTGCTGTATGATCATCACCAACAAATCTTCTTTTGACACATC 360
QY 405 AGGGCTTGCTCACTAGATTATGATGATATGCCAGAGGACGCTGCTGATCATGCTGCTA 464
Db 361 AGGGCTTGCTCACTAGATTATGATGATATGCCAGAGGACGCTGCTGATCATGCTGCTA 420
QY 465 GGCACAAAGGCGGATATGAGCAGCAAGAGTATCGCTTCCGAAGCAGGAGACCTTG 524
Db 421 GGCACAAAGGCGGATATGAGCAGCAAGAGTATCGCTTCCGAAGCAGGAGACCTTG 480
QY 525 GCCAGGAGTACGGTGTCCCTTCTTGAGACAGGCCCAAGACTGGCATGAATGTGGAG 584
Db 481 GCCAGGAGTACGGTGTCCCTTCTTGAGACAGGCCCAAGACTGGCATGAATGTGGAG 540
QY 585 TTAGCCTTTCTGCGCATCGCCCAAGGAACCTGAATATCCGGCCGGGCATCAGCGGGATGAG 644
Db 541 TTAGCCTTTCTGCGCATCGCCCAAGGAACCTGAATATCCGGCCGGGCATCAGCGGGATGAG 600
QY 645 CCAGGCTTCCAGATCCGAGACTATGTAGAGTCCAGAAAGGCTCCAGCTGCTGCTCC 704
Db 601 CCAGGCTTCCAGATCCGAGACTATGTAGAGTCCAGAAAGGCTCCAGCTGCTGCTCC 660
QY 705 TTATGTGAATCCAGGGGCGCAGAGGAGGCTCTGAGGACACACAGGATGCAAGCTTCC 764
Db 661 TTATGTGAATCCAGGGGCGCAGAGGAGGCTCTGAGGACACACAGGATGCAAGCTTCC 720
QY 765 CCCTCCAGGCTTGCTTATTCCAAAGGCTGAGCCAAATGGGGAGAAAGATGAGGACTC 824
Db 721 CCCTCCAGGCTTGCTTATTCCAAAGGCTGAGCCAAATGGGGAGAAAGATGAGGACTC 780
QY 825 ACTGCACAGCGCTTCTAGCAGGAGCTATACTTCCAACCTCTACTGAGTTCTCGGCT 884
Db 781 ACTGCACAGCGCTTCTAGCAGGAGCTATACTTCCAACCTCTACTGAGTTCTCGGCT 840
QY 885 CTCCCGCATCCAGAGGAGGTAACACCTTACTTATTTTATAGTACATATTTA 944
Db 841 CTCCCGCATCCAGAGGAGGTAACACCTTACTTATTTTATAGTACATATTTA 900
QY 945 ATACCAAAAAGGCGCTGGATCCCAAAAACCGAGGCTGGAGCTAGTGGCCCTTTTG 1004
Db 901 ATACCAAAAAGGCGCTGGATCCCAAAAACCGAGGCTGGAGCTAGTGGCCCTTTTG 960
QY 1005 CTTTCTAGGACTTTGGGGCGGCCCTCCCTCCTTAAGCATAAACAAAGGTGCTGCTCC 1064
Db 961 CTTTCTAGGACTTTGGGGCGGCCCTCCCTCCTTAAGCATAAACAAAGGTGCTGCTCC 1020
QY 1065 AGCTACGCCCCAGGGACACAGATGCACTTTGGGGGTGAGGGCAGGTAATGACTCCATCG 1124
Db 1021 AGCTACGCCCCAGGGACACAGATGCACTTTGGGGGTGAGGGCAGGTAATGACTCCATCG 1080
QY 1125 CACCTCAGTTTCACTGGACAGAGGCTCAGGTGACCCAGGCTTCACTGTCTCCCGCTCT 1184
Db 1081 CACCTCAGTTTCACTGGACAGAGGCTCAGGTGACCCAGGCTTCACTGTCTCCCGCTCT 1140
QY 1185 CCAGGAGCTTATCTTCCGCCCATCTCCCAATAAGTGGGGCCCTTGCTGTGAGGAAGAC 1244
Db 1141 CCAGGAGCTTATCTTCCGCCCATCTCCCAATAAGTGGGGCCCTTGCTGTGAGGAAGAC 1200
QY 1245 CAAGGCTCAGGGAAGATAGAGATATGGAGATGGAGGGGAGGACAAAGGCGCAGAGAG 1304
Db 1201 CAAGGCTCAGGGAAGATAGAGATATGGAGATGGAGGGGAGGACAAAGGCGCAGAGAG 1260
QY 1305 TAGGCTTAGTGGCTATCTTGGCCCTTACTTAACACCCCGCTGGAG 1350
Db 1261 TAGGCTTAGTGGCTATCTTGGCCCTTACTTAACACCCCGCTGGG 1306

RESULT 5
us-09-794-257-13
; Sequence 13, Application US/09794257
; Patent No. US20020098041
; GENERAL INFORMATION:
; APPLICANT: Meyers, Rachel

; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020098041alel
; FILE OF INVENTION: Human G-Proteins
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 1116
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (124)...(699)
US-09-794-257-13

Query Match 40.6%; Score 1086; DB 10; Length 1116;
Best Local Similarity 99.5%; Pred. No. 4.6e-183;
Matches 1089; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 37 GGCACATGAGGGCAGCCAGGCGCGTTGCCACCCGGGATGGCGAGGCCCGGAGCGCT 96
Db 23 GCGTCCGAGCGGGCAGCCAGGCGCGTTGCCACCCGGGATGGCGAGGCCCGGAGCGCT 82
QY 97 CCCC GCCCTG CAGTCC GAGCTAC GACCTCAG GGCAGAGGTGATGCTTCTGGGAGACACAG 156
Db 83 CCCC GCCCTG CAGTCC GAGCTAC GACCTCAG GGCAGAGGTGATGCTTCTGGGAGACACAG 142
QY 157 GCGTCCGCAAAACATGTTTCTCTGATCCAATTCAAAGACGGGGCTTCTTGTCGGAAACCT 216
Db 143 GCGTCCGCAAAACATGTTTCTCTGATCCAATTCAAAGACGGGGCTTCTTGTCGGAAACCT 202
QY 217 TCATAGCCACCGTCGCGATAGACTTCAGGAACAAGTGGTGTGATGCGGTGAGAG 276
Db 203 TCATAGCCACCGTCGCGATAGACTTCAGGAACAAGTGGTGTGATGCGGTGAGAG 262
QY 277 TGAAGCTGCAGATCTGGGCACACCGCTGGGCAGGAAGCGTTCCGAAGCGTCACCCATGCTT 336
Db 263 TGAAGCTGCAGATCTGGGCACACCGCTGGGCAGGAAGCGTTCCGAAGCGTCACCCATGCTT 322
QY 337 ATTACAGAGATGCTCAGGCGCTTCTGCTGTATGACATFACCAACAATCTTCTTTCG 396
Db 323 ATTACAGAGATGCTCAGGCGCTTCTGCTGTATGACATFACCAACAATCTTCTTTCG 382
QY 397 ACAACATCAGGCGCTGGCTCACCTGAGATTCATCAGTATGCCAGAGGGAGCTGTGATCA 456
Db 383 ACAACATCAGGCGCTGGCTCACCTGAGATTCATCAGTATGCCAGAGGGAGCTGTGATCA 442
QY 457 TGCTGTAGGCAACAAGGGCGGATATGAGCAGCGAAAGAGTGTCCGTTCCGAAGAGCGAG 516
Db 443 TGCTGTAGGCAACAAGGGCGGATATGAGCAGCGAAAGAGTGTCCGTTCCGAAGAGCGAG 502
QY 517 AGACCTTGGCCAGGAGTACGGGTGTTCCCTTCTTGAGAGCCAGGCCAAGACTTGGATGA 576
Db 503 AGACCTTGGCCAGGAGTACGGGTGTTCCCTTCTTGAGAGCCAGGCCAAGACTTGGATGA 562
QY 577 ATGTGGAGTTAGCTTCTTGGCCATCGCCAAAGAACTGAAATACCGGGCCCGGCATCAGG 636
Db 563 ATGTGGAGTTAGCTTCTTGGCCATCGCCAAAGAACTGAAATACCGGGCCCGGCATCAGG 622
QY 637 CGGATGAGCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAAGAAAGCGCTTCCAGCT 696
Db 623 CGGATGAGCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAAGAAAGCGCTTCCAGCT 682
QY 697 GCTGCTCTTCATGTGAATCCAGGGGCGCAGAGGAGGCTCTGGAGGCGACAGGATGC 756
Db 683 GCTGCTCTTCATGTGAATCCAGGGGCGCAGAGGAGGCTCTGGAGGCGACAGGATGC 742
QY 757 AGCTTCCCGCTCCAGGCGCTGCTTATTCGAAGAGGCTCAGCCAAATGGGAGAAAGATG 816
Db 743 AGCTTCCCGCTCCAGGCGCTGCTTATTCGAAGAGGCTCAGCCAAATGGGAGAAAGATG 802

QY 817 GAGGACTCACTGCACAGCCGCTTCTAGCAGGAGGCTATATCTCAACTCCTACTTGAGTT 876
Db 803 GAGGACTCACTGCACAGCCGCTTCTAGCAGGAGGCTATATCTCAACTCCTACTTGAGTT 862
QY 877 CTTGCGGCTCTCCCGCATTCACAGGAGGAGTAAACACTTAGCTTTTATTTAATAGTAC 936
Db 863 CTTGCGGCTCTCCCGCATTCACAGGAGGAGTAAACACTTAGCTTTTATTTAATAGTAC 922
QY 937 ATATTTAATACAAAAGCGCTGGATCCCAAAAACCGAGGCTGGAGCTAGTGG 996
Db 923 ATATTTAATACAAAAGCGCTGGATCCCAAAAACCGAGGCTGGAGCTAGTGG 982
QY 997 CCTTTTGTCTTCTAGGACTTGGGGGCGGCGCTCCTCTTAAGCATATAACAAGGTGGT 1056
Db 983 CCTTTTGTCTTCTAGGACTTGGGGGCGGCGCTCCTCTTAAGCATATAACAAGGTGGT 1042
QY 1057 GTTGCTCCAGCTCAGCCCAAGGACACAGATGACATTTGGGGGTAGGCGAGTAAATGA 1116
Db 1043 GTTGCTCCAGCTCAGCCCAAGGACACAGATGACATTTGGGGGTAGGCGAGTAAATGA 1102
QY 1117 CTCATCGCACCTT 1130
Db 1103 CTCATCGCACCTT 1116

RESULT 6

US-10-051-986-10
; Sequence 10, Application US/10051986
; Patent No. US20020146770A1
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; Tang, Y. Tom
; Lal, Preeti
; Guegler, Karl J.
; Corley, Neil C.
; Patterson, Chandra
; Batra, Sajeew
; Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01
; CLONE: 1528559
; SEQUENCE DESCRIPTION: SEQ ID NO: 10 :
US-10-051-986-10
Query Match 32.6% Score 873; DB 12; Length 875;
Best Local Similarity 100.0% Pred No. 1.5e-145;
Matches 873; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 46 CGGCGACGCGCAGCGCGCTTGCCACCCGGGATGCGAGGCCCCCGAGCGCTTCCCGGCCCT 105
Db 1 CGGCGACGCGCAGCGCGCTTGCCACCCGGGATGCGAGGCCCCCGAGCGCTTCCCGGCCCT 60
QY 106 GCAGTCGCGAGCTAGCACTCACGGGCAAGGTGATGCTTCTGGGAGACACAGCGCTCGGCA 165
Db 61 GCAGTCGCGAGCTAGCACTCACGGGCAAGGTGATGCTTCTGGGAGACACAGCGCTCGGCA 120
QY 166 AAACATGTTCTCTGATCCAATTCAAAGACGGGGCTTCTCTCGGGAACCTTTCATAGCCA 225
Db 121 AAACATGTTCTCTGATCCAATTCAAAGACGGGGCTTCTCTCGGGAACCTTTCATAGCCA 180
QY 226 CGGTCGGCATAGACTTTCAGGAACAAGGTGCTGACTGTGGATGGCGTGGAGTGAAGCTGC 285
Db 181 CGGTCGGCATAGACTTTCAGGAACAAGGTGCTGACTGTGGATGGCGTGGAGTGAAGCTGC 240
QY 286 AGATCTGGGACACCGCTGGGAGGAACGGTTCCGAAGCGTCAACCCATGCTTATTACAGAG 345
Db 241 AGATCTGGGACACCGCTGGGAGGAACGGTTCCGAAGCGTCAACCCATGCTTATTACAGAG 300
QY 346 ATGCTCAGGCTTCTGCTGCTGATGACATCAACCAAAATCTTCTTCGACAACTCA 405
Db 301 ATGCTCAGGCTTCTGCTGCTGATGACATCAACCAAAATCTTCTTCGACAACTCA 360
QY 406 GGGCTGCTCAGTGAATTCATGAGTATGCCAGAGGAGCGTGGTGTATGATCATGCTGTAG 465
Db 361 GGGCTGCTCAGTGAATTCATGAGTATGCCAGAGGAGCGTGGTGTATGATCATGCTGTAG 420
QY 466 GCAACAAGGGGATATGAGCAGCGAAAAGATGATCGCTTCCGAAGAGGAGAGACCTTGG 525
Db 421 GCAACAAGGGGATATGAGCAGCGAAAAGATGATCGCTTCCGAAGAGGAGAGACCTTGG 480
QY 526 CCAGGAGTACGGGTTCCTTCTGAGACAGCGCAAGCTGGCATGAATGTGGAGT 585
Db 481 CCAGGAGTACGGGTTCCTTCTGAGACAGCGCAAGCTGGCATGAATGTGGAGT 540
QY 586 TAGCCTTTCTGGCCATCGCCAAAGAACTGAAATACCGGGCGGGCATCAGCGGATGAGC 645
Db 541 TAGCCTTTCTGGCCATCGCCAAAGAACTGAAATACCGGGCGGGCATCAGCGGATGAGC 600
QY 646 CCAGCTTCAGATCCGAGACTATGTAGATCCAGAGAAGCGCTCCAGCTGCTGCTCCT 705
Db 601 CCAGCTTCAGATCCGAGACTATGTAGATCCAGAGAAGCGCTCCAGCTGCTGCTCCT 660
QY 706 TCATGTGAATCCAGGGGAGAGAGGAGGCTCTGGAGGACACAGAGTGCAGCTTCCC 765
Db 661 TCATGTGAATCCAGGGGAGAGAGGAGGCTCTGGAGGACACAGAGTGCAGCTTCCC 720
QY 766 CTTCCAGCGCTTCTTATTCAGAGGCTGAGCAATGGGGAGAAAGATGGAGACTCA 825
Db 721 CTTCCAGCGCTTCTTATTCAGAGGCTGAGCAATGGGGAGAAAGATGGAGACTCA 780
QY 826 CTGCACAGCGCTTCTAGCAGGAGCTATCTCAACTCTCTACTGTGATGCTCGCGGTC 885
Db 781 CTGCACAGCGCTTCTAGCAGGAGCTATCTCAACTCTCTACTGTGATGCTCGCGGTC 840
QY 886 TCCCCGCATCCACAGGGGAGGTAACACTTAG 918
Db 841 TCCCCGCATCCACAGGGGAGGTAACACTTAG 873

US-09-740-027-3
; Sequence 3, Application US/09740027
; Patent No. US20020076749A1
; GENERAL INFORMATION:
; APPLICANT: YE, Jane et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER COFACTOR
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER
; TITLE OF INVENTION: COFACTOR PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001052
; CURRENT APPLICATION NUMBER: US/09/740,027
; CURRENT FILING DATE: 2000-12-20
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 24707
; TYPE: DNA
; ORGANISM: Human
US-09-740-027-3

Query Match 25.6%; Score 683.4; DB 10; Length 24707;
Best Local Similarity 99.9%; Pred. No. 5.7e-112;
Matches 684; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1955 GTGTTCTGAAAAAGAGAAATCCCTGCTCCTGGAGCTGGTGAGACACAAAGATTAAAGC 2014
DB 1 GTGTTCTGAAAAAGAGAAATCCCTGCTCCTGGAGCTGGTGAGACACAAAGATTAAAGC 60
QY 2015 AAACCTCCCTGCATGTATCCCTTTGACCCCAAGCTCTGCCCTCCTCCAGCACCCAT 2074
DB 61 AAACCTCCCTGCATGTATCCCTTTGACCCCAAGCTCTGCCCTCCTCCAGCACCCAT 120
QY 2075 GCCTTTTCCTTTAACTTCTCAACACAGATACACAGGGCTAAACTGCTTTTACCTCCCTCCT 2134
DB 121 GCCTTTTCCTTTAACTTCTCAACACAGATACACAGGGCTAAACTGCTTTTACCTCCCTCCT 180
QY 2135 ACTGAGTCAGGTTAGTGTTGGAGGTACCCCATTTCCGAGTTAAACCAATGCAATATGA 2194
DB 181 ACTGAGTCAGGTTAGTGTTGGAGGTACCCCATTTCCGAGTTAAACCAATGCAATATGA 240
QY 2195 GTAAACAAGATCATCTGGGTATGCTGGGTAGAGAGGGGTACGAAGTTTCATGTGTC 2254
DB 241 GTAAACAAGATCATCTGGGTATGCTGGGTAGAGAGGGGTACGAAGTTTCATGTGTC 300
QY 2255 CTCCTTGGTCACATATCTCCAAAGCTCTGATCCCTGCCATGGGAAGTGGACAGAAACA 2314
DB 301 CTCCTTGGTCACATATCTCCAAAGCTCTGATCCCTGCCATGGGAAGTGGACAGAAACA 360
QY 2315 TGAGGTATGACCTGCAGGATCTTTACTGCAGCTCTGCCGGCTGGAGGGGAGAGGGG 2374
DB 361 TGAGGTATGACCTGCAGGATCTTTACTGCAGCTCTGCCGGCTGGAGGGGAGAGGGG 420
QY 2375 GAGGAAGAAGTATCGCTGCACATTTCTGAGGCTACTGCTATTTGCTTCAAGGCAGAAAT 2434
DB 421 GAGGAAGAAGTATCGCTGCACATTTCTGAGGCTACTGCTATTTGCTTCAAGGCAGAAAT 480
QY 2435 CTTGCTCTGAGCAGTCAGCGGCTCCAGTTTGGGCCCGATGAAGAAAGTTCTCCGTGCCCTC 2494
DB 481 CTTGCTCTGAGCAGTCAGCGGCTCCAGTTTGGGCCCGATGAAGAAAGTTCTCCGTGCCCTC 540
QY 2495 CCTCAGCAGAGGAGGAGGCTGACATTTGCCAGTCTCTTCTGGGGCCCAAGGCAGGT 2554
DB 541 CCTCAGCAGAGGAGGAGGCTGACATTTGCCAGTCTCTTCTGGGGCCCAAGGCAGGT 600
QY 2555 TGCAAGAGATCCCAATCCATAGACAGCTCTGGCCCTCTTGCATTTTTCAGAAAT 2614
DB 601 TGCAAGAGATCCCAATCCATAGACAGCTCTGGCCCTCTTGCATTTTTCAGAAAT 660
QY 2615 AAACTCAGTATTTTGGAAAGCAA 2639
DB 661 AAACTCAGTATTTTGGAAAGCAA 685

RESULT 8

US-09-817-199A-24
; Sequence 24, Application US/09817199A
; Patent No. US20020142380A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS, THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001187
; CURRENT APPLICATION NUMBER: US/09/817,199A
; CURRENT FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-817-199A-24

Query Match 22.5%; Score 600.6; DB 10; Length 601;
Best Local Similarity 99.8%; Pred. No. 1.3e-97;
Matches 600; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
QY 1983 GCTCTGTGAGCTGTGGGAGACAAAGATTAAAGCAAACTCCCTCGACATGTATCCCTTTGA 2042
DB 1 GCTCTGTGAGCTGTGGGAGACAAAGATTAAAGCAAACTCCCTCGACATGTATCCCTTTGA 60
QY 2043 CCCCAGGCTCTGCCCTCCCTGACCCATGCCCTTCTTAACTTCTCAACACAGAT 2102
DB 61 CCCCAGGCTCTGCCCTCCCTGACCCATGCCCTTCTTAACTTCTCAACACAGAT 120
QY 2103 ACCAGGGCTAAACTGCTTTTACCTCCCTCCTTACTGAGTCAGTTAGTGGGAGGTC 2162
DB 121 ACCAGGGCTAAACTGCTTTTACCTCCCTCCTTACTGAGTCAGTTAGTGGGAGGTC 180
QY 2163 ACCCATTTCCGAGTTAAACCAATGCAATATGATTAACAAAGATCATGTGGGTATGTCTG 2222
DB 181 ACCCATTTCCGAGTTAAACCAATGCAATATGATTAACAAAGATCATGTGGGTATGTCTG 240
QY 2223 GGGTAGAGAGAGGGGTAGCAAGTTTCATGTCTCCTTGGTCACATATCTCCCAAGGTC 2282
DB 241 GGGTAGAGAGAGGGGTAGCAAGTTTCATGTCTCCTTGGTCACATATCTCCCAAGGTC 300
QY 2283 TGATCCTCCCATGGGAAGTGGAGGAAACATGAGGTGATGACCTGCAGGATCTTTAC 2342
DB 301 YGATCCTCCCATGGGAAGTGGAGGAAACATGAGGTGATGACCTGCAGGATCTTTAC 360
QY 2343 TGCAGCTCTGCCGGCTGGAGGGGAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2402
DB 361 TGCAGCTCTGCCGGCTGGAGGGGAGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 420
QY 2403 GAGGCTACTGCAATTTGCTTTTCAAGGCAGAAATCTTGTCTTGAGCAGTCAAGCGCTCCAGT 2462
DB 421 GAGGCTACTGCAATTTGCTTTCAAGGCAGAAATCTTGTCTTGAGCAGTCAAGCGCTCCAGT 480
QY 2463 TTGGGGCCCATGAAGAAAGTTCTCCGTGGCCCTCCCTCAGCAGCAGCAGGAGGAGGCTGAC 2522
DB 481 TTGGGGCCCATGAAGAAAGTTCTCCGTGGCCCTCCCTCAGCAGCAGCAGGAGGAGGCTGAC 540
QY 2523 ATTGCCAGTCTCTTCTGGGGCCCAAGGCAGGTTGCAAGGAGATCCCAATCCATAGACGCT 2582
DB 541 ATTGCCAGTCTCTTCTGGGGCCCAAGGCAGGTTGCAAGGAGATCCCAATCCATAGACGCT 600
QY 2583 C 2583
DB 601 C 601

RESULT 9
US-09-794-257-15
; Sequence 15, Application US/09794257
; Patent No. US2002009804A1
; GENERAL INFORMATION:

; APPLICANT: Meyers, Rachel
; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1el
; FILE REFERENCE: 35800/209285
; CURRENT APPLICATION NUMBER: US/09/794,257
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: 60/185,606
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 576
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-794-257-15

Query Match 21.5%; Score 576; DB 10; Length 576;
Best Local Similarity 100.0%; Pred. No. 2.9e-93;
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 138 ATGCTTCTGGGAGACACAGGCGTCGGCAAAACATGTTTCTGTATCCCAATTCAAAGACGGG 197
Db 1 ATGCTTCTGGGAGACACAGGCGTCGGCAAAACATGTTTCTGTATCCCAATTCAAAGACGGG 60
Qy 198 GCCTTCCTGTCGGAACTTCATAGCACCGTCGGCATAGACTTTCAGGAACAAGGTGGT 257
Db 61 GCCTTCCTGTCGGAACTTCATAGCACCGTCGGCATAGACTTTCAGGAACAAGGTGGT 120
Qy 258 ACTGTGATGGCGTGAGAGTGAAGCTGCAGATCTGGACACCGCTGGCAGGAACGGTTC 317
Db 121 ACTGTGATGGCGTGAGAGTGAAGCTGCAGATCTGGACACCGCTGGCAGGAACGGTTC 180
Qy 318 CGAAGCGTCACCCATGCTTATTACAGAGATGCTCAGGCGCTTGTCTCTGTATGACATC 377
Db 181 CGAAGCGTCACCCATGCTTATTACAGAGATGCTCAGGCGCTTGTCTCTGTATGACATC 240
Qy 378 ACCAACAATCTCTTCGACAACATCAGGCGCTGGCTCACTAGATTCATGATATGCC 437
Db 241 ACCAACAATCTCTTCGACAACATCAGGCGCTGGCTCACTAGATTCATGATATGCC 300
Qy 438 CAGAGGACGCTGGTGATCATGCTCTAGGCAACAAGCGGATATGAGCAGGCAAGAGTG 497
Db 301 CAGAGGACGCTGGTGATCATGCTCTAGGCAACAAGCGGATATGAGCAGGCAAGAGTG 360
Qy 498 ATCCGTTCCGAAGACGGAGACACCTTGGCCAGGAGTACGGTGTTCCTCTCGAGACC 557
Db 361 ATCCGTTCCGAAGACGGAGACACCTTGGCCAGGAGTACGGTGTTCCTCTCGAGACC 420
Qy 558 AGCCCAAGACTGCGATGAATGTGGAGTTAGCCCTTCTGGCCATCGGCAAGAACTGAAA 617
Db 421 AGCCCAAGACTGCGATGAATGTGGAGTTAGCCCTTCTGGCCATCGGCAAGAACTGAAA 480
Qy 618 TACCGGCGCGGCATCAGCGCGGATGACCCAGCTTCAGATCCGAGACTATGTAGATCC 677
Db 481 TACCGGCGCGGCATCAGCGCGGATGAGCCAGCTTCAGATCCGAGACTATGTAGATCC 540
Qy 678 CAGAAGAAGCGCTCCAGCTGCTGCTCTTCATGTGA 713
Db 541 CAGAAGAAGCGCTCCAGCTGCTGCTCTTCATGTGA 576

RESULT 10
US-09-817-199A-25
; Sequence 25, Application US/09817199A
; Patent No. US20020142380A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
; TITLE OF INVENTION: PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL001187
; CURRENT APPLICATION NUMBER: US/09/817,199A
; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-817-199A-25
Query Match 21.4%; Score 573; DB 10; Length 601;
Best Local Similarity 99.7%; Pred. No. 9.7e-93;
Matches 573; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 2065 GACCACCCATGCCCTTTCCCTTTAACTTCTCAACAGATACACAGGCGCTTAAACTGCTTTAC 2124
Db 1 GACCACCCATGCCCTTTCCCTTTAACTTCTCAACAGATACACAGGCGCTTAAACTGCTTTAC 60
Qy 2125 CTCCTCTCTACTAGTCAGGTTAGGTGGGAGGTCAACCATTTTCGAGTTAAACCAA 2184
Db 61 CTCCTCTCTACTAGTCAGGTTAGGTGGGAGGTCAACCATTTTCGAGTTAAACCAA 120
Qy 2185 TGCATATGACTAAACAAAGTCATGTGGGTATGCTGGGTAGAGAGGGGTAGCAAG 2244
Db 121 TGCATATGACTAAACAAAGTCATGTGGGTATGCTGGGTAGAGAGGGGTAGCAAG 180
Qy 2245 TTCATGTCTCTCTCTGTGTCACATATCTCCAAAGCTCTGATCCCTGCCATGGGAAGTGG 2304
Db 181 TTCATGTCTCTCTCTGTGTCACATATCTCCAAAGCTCTGATCCCTGCCATGGGAAGTGG 240
Qy 2305 ACAGAAACATGAGGTCTATGACCTGCAGGCATCTTTACTGAGCTCTCCGCGCTGGAGG 2364
Db 241 ACAGAAACATGAGGTCTATGACCTGCAGGCATCTTTACTGAGCTCTCCGCGCTGGAGG 300
Qy 2365 GGGAGAGGGGAGGAAGATATGGCTGCACATTTCTGAGGCTACTGCAATTTGCTTTCA 2424
Db 301 RGGAGAGGGGAGGAAGATATGGCTGCACATTTCTGAGGCTACTGCAATTTGCTTTCA 360
Qy 2425 AGGCAGAAATCTGCTCTGAGCAGTCAAGCGCTCAGTTTGGGCCCGATAAGAAAGTTCT 2484
Db 361 AGGCAGAAATCTGCTCTGAGCAGTCAAGCGCTCAGTTTGGGCCCGATAAGAAAGTTCT 420
Qy 2485 CCGTGGCTCTCCTCAGGAGAGGAGGAGGAGGCTGACATTCGCCAGTCTCTCTCGGGGCC 2544
Db 421 CCGTGGCTCTCCTCAGGAGAGGAGGAGGAGGCTGACATTCGCCAGTCTCTCTCGGGGCC 480
Qy 2545 CAAGCAGGTTTGCAGGAGATCCAAATCCCATAGACAGCTCTGGGCCCTTTGCAATTTGAGTT 2604
Db 481 CAAGCAGGTTTGCAGGAGATCCAAATCCCATAGACAGCTCTGGGCCCTTTGCAATTTGAGTT 540
Qy 2605 TTTCAGAAATTAACATGTCAGTATTTTGGAAAGCAA 2639
Db 541 TTTCAGAAATTAACATGTCAGTATTTTGGAAAGCACA 575

RESULT 11
US-09-867-550-1811
; Sequence 1811, Application US/09867550
; Patent No. US20020082206A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fuad,
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells a
; TITLE OF INVENTION: Thereby
; FILE REFERENCE: 21402-013 (Cura-313)
; CURRENT APPLICATION NUMBER: US/09/867,550
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: USSN 60/208,427
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1811

; LENGTH: 447									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
; FEATURE:									
; NAME/KEY: misc_feature									
; LOCATION: (1)									
; OTHER INFORMATION: Wherein n is one of a or t or c or g									
US-09-867-550-1811									
Query Match									
Best Local Similarity 16.6%; Score 443.4; DB 10; Length 447;									
Matches 444; Conservative 0; Mismatches 1; Indels 0; Gaps 0;									
QY	11	GGCGGACATGCTACCTCTCGTCCAGGACATGAGCGGCAGCCAGCGCGTTCGCCAC	70						
DB	3	GGCGGACATGCTACCTCTCGTCCAGGACATGAGCGGCAGCCAGCGCGTTCGCCAC	62						
QY	71	CCGGATGGGAGGCGCCCGAGCGCTCCCGCCCTGCAGTCCGAGCTACGACTCACGGG	130						
DB	63	CCGGATGGGAGGCGCCCGAGCGCTCCCGCCCTGCAGTCCGAGCTACGACTCACGGG	122						
QY	131	CAAGGTGATCTTCTGGGACACAGCGGCTCGGCAAAACATGTTCTGATCCAAATCAA	190						
DB	123	CAAGGTGATCTTCTGGGACACAGCGGCTCGGCAAAACATGTTCTGATCCAAATCAA	182						
QY	191	AGACGGGCGCTTCTGTCGGAACCTTCATAGCCACCGCTCGGCATAGACTTCAGGAACAA	250						
DB	183	AGACGGGCGCTTCTGTCGGAACCTTCATAGCCACCGCTCGGCATAGACTTCAGGAACAA	242						
QY	251	GGTGGTACTGTGGATGGCGTGAGAGTGAAGCTGCAGATCTGGGACACCGCTGGGACGA	310						
DB	243	GGTGGTACTGTGGATGGCGTGAGAGTGAAGCTGCAGATCTGGGACACCGCTGGGACGA	302						
QY	311	ACGTTCCGAAGCTACCCATGCTTATTACAGAGATGCTCAGGCGCTTGCTTCTGCTGTA	370						
DB	303	ACGTTCCGAAGCTACCCATGCTTATTACAGAGATGCTCAGGCGCTTGCTTCTGCTGTA	362						
QY	371	TGACATCACCACAAATCTTCTTTCGACAACTCAGGCGCTGGCTCACTGAGATTCAATGA	430						
DB	363	TGACATCACCACAAATCTTCTTTCGACAACTCAGGCGCTGGCTCACTGAGATTCAATGA	422						
QY	431	GTATGCCAGAGGACGTGGTGATC	455						
DB	423	GTATGCCAGAGGACGTGGTGATC	447						
RESULT 12									
US-09-764-868-75									
; Sequence 75, Application US/09764868									
; Patent No. US20020168711A1									
; GENERAL INFORMATION:									
; APPLICANT: Rosen et al.									
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies									
; FILE REFERENCE: PT232									
; CURRENT APPLICATION NUMBER: US/09764,868									
; CURRENT FILING DATE: 2001-01-17									
; Prior application data removed - refer to PALM or file wrapper									
; NUMBER OF SEQ ID NOS: 1510									
; SOFTWARE: PatentIn Ver. 2.0									
; SEQ ID NO 75									
; LENGTH: 964									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
; NAME/KEY: SITE									
; LOCATION: (806)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (898)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (918)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (924)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (952)									
; OTHER INFORMATION: n equals a,t,g, or c									
; NAME/KEY: SITE									
; LOCATION: (959)									
; OTHER INFORMATION: n equals a,t,g, or c									
US-09-764-868-75									
Query Match									
Best Local Similarity 7.8%; Score 209.4; DB 9; Length 964;									
Matches 285; Conservative 0; Mismatches 126; Indels 0; Gaps 0;									
QY	291	TGGGACACCGCTGGGACGAGCGTTCGGAAGCGGTCACCCATGCTTATTACAGAGTCT	350						
DB	3	TGGGACACAGCTGGTCCAGGAGCGGTTCCGAGTGTATCCCATGCTTACTACGGGATGCT	62						
QY	351	CAGGCGTCTGCTCTCTGCTATGACATCACCAACAATCTTCTTGGACAACATCAGGCGC	410						
DB	63	CATGCTCTGCTCTCTACGATGTCACCAACAAGGCTCTCTTGACAACATCCAGGCGC	122						
QY	411	TGGCTCACTGAGATTCAATGAGTATCCCGAGGAGCGTGGTCATCATGCTGTAGGCAAC	470						
DB	123	TGGCTGACCGAGATCCACGAGTACCCCGACGACGTGGGCGCTCATGCTGCTGGGGAAC	182						
QY	471	AAGCGGATATGAGCAGCGAAGAGAGTGTCCGTCGGAAGACGAGAGACCTTGGCCAGG	530						
DB	183	AAGTGGAGTCTGCCCCATGAGCGTGTGGTGAAGAGGAGGACGGGAGAGCTGCCAAG	242						
QY	531	GAGTACGGTGTTCCTTCTGAGACCGCGCAAGACTGGCATGAATGTGAGTTAGCC	590						
DB	243	GAGTATGGACTGCCCTTTCATGGAGACCGCGCAAGCGGCTCAACGTGGACTTGGGC	302						
QY	591	TTTCTGGCATCGCAAGAACTGAAATACCGCGCGGCGCATCAGCGGATCAGCGCCAGC	650						
DB	303	TTACAGCCATAGCAAGAGAGTGAAGAGCGCTCCATGAAGGCTCCCGAGCGCGCGC	362						
QY	651	TTCCAGATCCGAGCATATGTAGAGTCCCGAAGAGCGCTCCAGCTGCTGTCG	701						
DB	363	TTCCGCGTGCATGATTACGTTAAGAGGAGGCTCGAGGGCGCTCTCTGCTGTC	413						
RESULT 13									
US-09-764-877-2275/c									
; Sequence 2275, Application US/09764877									
; Patent No. US20020147140A1									
; GENERAL INFORMATION:									
; APPLICANT: Rosen et al.									
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies									
; FILE REFERENCE: PC005									
; CURRENT APPLICATION NUMBER: US/09764,877									
; CURRENT FILING DATE: 2001-01-17									
; Prior application data removed - refer to PALM or file wrapper									
; NUMBER OF SEQ ID NOS: 4031									
; SOFTWARE: PatentIn Ver. 2.0									
; SEQ ID NO 2275									
; LENGTH: 21833									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
US-09-764-877-2275									
Query Match									
Best Local Similarity 74.1%; Score 200.6; DB 10; Length 21833;									
Matches 254; Conservative 0; Mismatches 89; Indels 0; Gaps 0;									
QY	1525	TTTTGTTTTTTTATTTTGAATGGAGTCTCGTCTCGCCAGGCTGAGGTGCACTAG	1584						
DB	5032	TTTTTTTTTTTTTCTCGTCTGAGTGGAGTCTCGCTCTTTGCCAGGCTGGAATGCAATGG	4973						
QY	1585	TGCAATCTCCGCTCACTACAACTCCACTCCCTCGGGGCTCAAGGATCCTCCCACTCAG	1644						

Db 4972 TGCANTCTCGCTCAGTGCACCTCCACCCTCTCGGGTTCAAGTGATCTCCTCCCTCAG 4913
QY 1645 CCGCCGAGTAGCTGGGACTATAGTGTACCATCACACTGCTGCTAATTTTGTATTTT 1704
Db 4912 CTTCCAGGTAGCTGGGATACAGCCGCCACACACAGCCAGCTAATTTTGTATTTT 4853
QY 1705 TTGTAGACACAGGTTTTCGCATGTTGCCAGGCTGTCTTGAATTCCTGAGCTCAAGCA 1764
Db 4852 TAGTAGACACAGGTTTTCACAGGTTGGCCAGGCTGTGAATCTCTGACCTCAGATG 4793
QY 1765 ACCTGCCGCTCGGCTCCCAAGTACTGGGATTACACGAGNAGGACCATGCCAGG 1824
Db 4792 ATCCACCTGCTGGGCTCCCAAGTCTGGGATTACAGGCGTGGAGCCAGCTGCCCGC 4733
QY 1825 CTAGATGCTGTATCCCAATCTTTGGCAGGATGAGCTCC 1867
Db 4732 CTTGGAATTTCTATGATATCTTTTGATGAAAAGGCCCTCC 4690

RESULT 14
US-09-764-877-3373/c
; Sequence 3373, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3373
; LENGTH: 1130
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-877-3373

Query Match 7.5%; Score 199.8; DB 10; Length 1130;
Best Local Similarity 77.1%; Pred. No. 5.8e-27;
Matches 243; Conservative 0; Mismatches 72; Indels 0; Gaps 0;

QY 1516 GGAAGAGAGTTTGTATTTTATTTTGAATGGAGTCTCGTTCTGTGCGCCAGGCTGAG 1575
Db 673 GTAATAATTTTCTTTTATTTTGTGAGACAGGGCTAGCTCTGACACCCAGGCTGAA 614
QY 1576 GTGCAGTAGTGCATCTCCGCTCACTACACCTCCCTCCCTGGGGCTCAAGCGATCCTC 1635
Db 613 GTGCAGTGGTGTGATCTCAGCTCACTGCAACCTCTGCTGCTTCTGAGTCAAGTATCCTC 554
QY 1636 CCACCTCAGCGCGGAGTAGCTGGGACTATAGTGTGTACCATCACACCTGGCTAATTT 1695
Db 553 CCACCTCAGGCTCTAAGTAGTGGGACTACAATGACACACACACCTGGTGAATTT 494
QY 1696 TTGTATTTTGTAGACACAGGTTTGCCTATGTTGCCAGGCTGTCTTGAATTCCTGA 1755
Db 493 TTGTATTTTGTAGACACAGGTTTGGCCAGCTTTGCCAGGCTGTCTGGAATCTCTGG 434
QY 1756 GCTCAACCACTGCCGCGCTCCGCCCTCCCAAGTACTGGGATTACAGCAGAGGACCC 1815
Db 433 GCTCAAGCGATCCGCGCCCTTGGCCCTCCCAAGTACTGGGATTACAGGAGTACAGCCACA 374
QY 1816 ATGCCAGGCTAGAT 1830
Db 373 ATGGCTGGCGCAAT 359

RESULT 15
US-09-764-877-3236
; Sequence 3236, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3236
; LENGTH: 15745
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-877-3236

Query Match 7.4%; Score 198.6; DB 10; Length 15745;
Best Local Similarity 76.7%; Pred. No. 1.3e-26;
Matches 243; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 1514 TAGGAAAAGAGTTTGTATTTTATTTTGAATGGAGTCTCGTTCTGTGCGCCAGGCTG 1573
Db 6486 TAAGTTACTAACATTTTATTTTGTGAGACAGGATCTTGTCTGTACCCAGGCTG 6545
QY 1574 AGTGGAGTAGTGAATCTCGGCTCACTACACCTCCACTCCCTGGGGCTCAAGGATCC 1633
Db 6546 GAGTGCAGTGGTAGCATCTCAGCTCACTGTAGCCTTAACCCACACAGGCTTATCGCTCC 6605
QY 1634 TCCACCTCAGCGCGGAGTAGCTGGGACTATAGTGTGTACCATCACACCTGGCTAAT 1693
Db 6606 TCCACCTCAGCGCTCCCAAGTAGTGGAACTATAGTGCATACACCATGCTGGCTAAT 6665
QY 1694 TTTTGTATTTTGTAGACACAGGTTTTCGCCATGTTGCCAGGCTGGTCTTGAATTCCT 1753
Db 6666 TTTTGTATTTTGTAGAGGAGGTTTGGCCCTTTGGCCAGGCTGGTCTTGAATTCCT 6725
QY 1754 GAGCTCAAGCAACCTGCGGCTCGGCTCCCAAGTACTGGGATTACACGCAAGGCA 1813
Db 6726 GAGCTCAAGCAATCTCCACCTCAGGCTCCCAAGGTTTGGGATTACAGGTTGAGCCA 6785
QY 1814 CCATGCCCGAGGCTAGAT 1830
Db 6786 CTGCACCGGCGCAAGTT 6802

Search completed: January 16, 2003, 06:32:20
Job time : 231 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 16, 2003, 05:31:00 ; Search time 24 seconds
(without alignments)
273.388 Million cell updates/sec

Title: US-09-817-199A-2

Perfect score: 1150

Sequence: 1 MTGTPGAVATRDGEAPERSP.....FOIRDYVESQKKRSCCSFEM 223

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	977	85.0	191	4	US-09-075-454-3
2	745	64.8	190	2	US-08-824-873-3
3	745	64.8	190	3	US-09-198-184-3
4	666	57.9	190	2	US-08-824-873-1
5	666	57.9	190	3	US-09-198-184-1
6	513.5	44.7	207	2	US-08-824-873-4
7	513.5	44.7	207	3	US-09-198-184-4
8	504	43.8	205	2	US-08-531-525-25
9	504	43.8	205	2	US-08-718-270A-25
10	486	42.3	207	2	US-08-531-525-35
11	486	42.3	207	2	US-08-718-270A-35
12	478.5	41.6	198	2	US-08-531-525-51
13	478.5	41.6	198	2	US-08-718-270A-51
14	478.5	41.6	215	2	US-08-531-525-10
15	478.5	41.6	215	2	US-08-718-270A-10
16	472	41.0	201	2	US-08-916-901-8
17	472	41.0	201	2	US-09-154-602-8
18	471	41.0	202	2	US-08-531-525-14
19	471	41.0	202	2	US-08-718-270A-14
20	468	40.7	201	2	US-08-916-901-3
21	468	40.7	201	4	US-09-154-602-3
22	458	39.8	201	2	US-08-531-525-13
23	458	39.8	201	2	US-08-718-270A-13
24	450.5	39.2	194	2	US-08-531-525-34
25	450.5	39.2	194	2	US-08-718-270A-34
26	448.5	39.0	212	4	US-09-399-913-67
27	446.5	38.8	212	2	US-08-531-525-18

Sequence 18, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 17, Appl
Sequence 17, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 12, Appl
Sequence 12, Appl
Sequence 8, Appl
Sequence 15, Appl
Sequence 52, Appl
Sequence 52, Appl
Sequence 52, Appl
Sequence 21, Appl
Sequence 21, Appl
Sequence 11, Appl
Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-09-075-454-3
; Sequence 3, Application US/09075454
; Patent No. 6391580
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Guegler, Karl J.
; APPLICANT: Corley, Neil C.
; APPLICANT: Patterson, Chandra
; APPLICANT: Batra, Sajeev
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/075,454
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Certone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 151 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01

CLONE: 1528559

US-09-075-454-3

Query Match 85.0%; Score 977; DB 4; Length 191;
Best Local Similarity 100.0%; Pred. No. 3.9e-101;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 MLLGDTGVGKTCFLIQKDGAFLSGTFIATVGIDFRNKVTVTDGVRVKLIQIWDTAGQERF 92
DB 1 MLLGDTGVGKTCFLIQKDGAFLSGTFIATVGIDFRNKVTVTDGVRVKLIQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVVIMLLGNKADMSSEV 152
DB 61 RSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVVIMLLGNKADMSSEV 120
QY 153 IRSEGETLAREYGVPFLETSAKTGMNVELAFIAIAKELKYRAGHQADEPSPQIRDYVES 212
DB 121 IRSEGETLAREYGVPFLETSAKTGMNVELAFIAIAKELKYRAGHQADEPSPQIRDYVES 180
QY 213 QKKRSSCCSF 223
DB 181 QKKRSSCCSF 191

RESULT 2

US-08-824-873-3
; Sequence 3, Application US/08824873
; Patent No. 5843717
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/824,873
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 619734
US-08-824-873-3

Query Match 64.8%; Score 745; DB 2; Length 190;
Best Local Similarity 73.4%; Pred. No. 3e-75;
Matches 138; Conservative 27; Mismatches 23; Indels 0; Gaps 0;

QY 33 MLLGDTGVGKTCFLIQKDGAFLSGTFIATVGIDFRNKVTVTDGVRVKLIQIWDTAGQERF 92
DB 1 MLLGDTGVGKTCFLIQKDGAFLSGTFIATVGIDFRNKVTVTDGVRVKLIQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVVIMLLGNKADMSSEV 152
DB 61 RSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVVIMLLGNKADMSSEV 120
QY 153 IRSEGETLAREYGVPFLETSAKTGMNVELAFIAIAKELKYRAGHQADEPSPQIRDYVES 212
DB 121 IRSEGETLAREYGVPFLETSAKTGMNVELAFIAIAKELKYRAGHQADEPSPQIRDYVES 180
QY 213 QKKRSSCC 220
DB 181 EGRGVSCC 188

RESULT 3

US-09-198-184-3
; Sequence 3, Application US/09198184
; Patent No. 6010859
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/824,873
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 619734
US-09-198-184-3

Query Match 64.8%; Score 745; DB 3; Length 190;
Best Local Similarity 73.4%; Pred. No. 3e-75;
Matches 138; Conservative 27; Mismatches 23; Indels 0; Gaps 0;

QY 33 MLLGDTGVGKTCFLIQKDGAFLSGTFIATVGIDFRNKVTVTDGVRVKLIQIWDTAGQERF 92
DB 1 MLLGDTGVGKTCFLIQKDGAFLSGTFIATVGIDFRNKVTVTDGVRVKLIQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTHEIHEYAQRDVVIMLLGNKADMSSEV 152


```
Db 61 RSVTHAYYRAHALLLLYDITNKDSFNIQAWLTEIHEYAQDQVVLMLGNKVDSTQERV 120
QY 153 IRSEGGTTLAREYGVPLETSKATGMNVELAFIAIAKELKYRAGHQADEPSFQIRDYVES 212
Db 121 VKREDGEKLAKEYGLPPEMETSAGSLNVDLAFTAIKELKORSTKAPSEPRFLHDYVKR 180
QY 213 QKRSSCC 220
Db 181 EGRGVSCC 188

RESULT 4
US-08-824-873-1
: Sequence 1, Application US/08824873
: Patent No. 5843717
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: APPLICANT: Guegler, Karl
: TITLE OF INVENTION: NOVEL RAB PROTEIN
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSEO for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/824,873
: FILING DATE: Filed Herewith
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0240 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 190 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: PANCNOT04
: CLONE: 738957
US-08-824-873-1

Query Match 57.9%; Score 666; DB 2; Length 190;
Best Local Similarity 67.0%; Pred. No. 2e-66;
Matches 126; Conservative 25; Mismatches 37; Indels 0; Gaps 0;

QY 33 MLLGDTGVGKTCFLIQKDGAFSLSGTFTATVGDIFRNKVVTVDGVVRVKLQIWDTAGOERF 92
Db 1 MLVGDSGVGKTCFLIGATQGCWCFPGGDLHLHRSIDFRNKVLDVGVKVKLQMWDTAGOERF 60
QY 93 RSVTHAYYRAQALLLLYDITNKSSFDNIRAWLTEIHEYAQDQVVMILLGNKADMSSERV 152
Db 61 RSVTHAYYRAHALLLLYDVTNKASFDNIQAWLTEIHEYAQHDVALMLGNKVDSAHERV 120
QY 153 IRSEGGTTLAREYGVPLETSKATGMNVELAFIAIAKELKYRAGHQADEPSFQIRDYVES 212
Db 121 VKREDGEKLAKEYGLPPEMETSAGSLNVDLAFTAIKELKORSTKAPSEPRFLHDYVKR 180
QY 213 QKRSSCC 220
Db 181 EGRGVSCC 188
```

```
QY 213 QKRSSCC 220
Db 181 EGRGVSCC 188

RESULT 5
US-09-198-184-1
: Sequence 1, Application US/09198184
: Patent No. 6010859
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: APPLICANT: Guegler, Karl
: TITLE OF INVENTION: NOVEL RAB PROTEIN
: NUMBER OF SEQUENCES: 4
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSEO for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/198,184
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/824,873
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0240 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 190 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: PANCNOT04
: CLONE: 738957
US-09-198-184-1
```

Query Match 57.9%; Score 666; DB 3; Length 190;
Best Local Similarity 67.0%; Pred. No. 2e-66;
Matches 126; Conservative 25; Mismatches 37; Indels 0; Gaps 0;

```
QY 33 MLLGDTGVGKTCFLIQKDGAFSLSGTFTATVGDIFRNKVVTVDGVVRVKLQIWDTAGOERF 92
Db 1 MLVGDSGVGKTCFLIGATQGCWCFPGGDLHLHRSIDFRNKVLDVGVKVKLQMWDTAGOERF 60
QY 93 RSVTHAYYRAQALLLLYDITNKSSFDNIRAWLTEIHEYAQDQVVMILLGNKADMSSERV 152
Db 61 RSVTHAYYRAHALLLLYDVTNKASFDNIQAWLTEIHEYAQHDVALMLGNKVDSAHERV 120
QY 153 IRSEGGTTLAREYGVPLETSKATGMNVELAFIAIAKELKYRAGHQADEPSFQIRDYVES 212
Db 121 VKREDGEKLAKEYGLPPEMETSAGSLNVDLAFTAIKELKORSTKAPSEPRFLHDYVKR 180
QY 213 QKRSSCC 220
Db 181 EGRGVSCC 188
```

```

RESULT 6
US-08-824-873-4
; Sequence 4, Application US/08824873
; Patent No. 5843717
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/824,873
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 207 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 234746
; US-08-824-873-4

Query Match 44.7%; Score 513.5; DB 2; Length 207;
Best Local Similarity 50.0%; Pred. No. 2.4e-49;
Matches 99; Conservative 41; Mismatches 53; Indels 5; Gaps 2;

QY 25 SYDLTGKVMLLGDTGVGKTCFLIQKDGAFSLGTFIATVGDIFRNKVVTVDGVVRVKLIQW 84
Db 4 TYDYLKLLLLIGDSGVGKTCVLFREFSEDAF-NSTFTSTIGIDFKIRTIELDGKRIKLIQW 62
QY 85 DTAGQERFRSVTHAYYRDAQALLLLYDITNKSFDNIRAWLTIHEHYAQRDVVMILGNK 144
Db 63 DTAGQERFRITTTAYYRGAMGIMLVYDITNEKSFDMIRNIRNIEEHASADVEKMILGNK 122
QY 145 ADMSSERVISEDGETLAREYGVFPFLETSAKTCMNVNELAFALAKELKYRAGHQAD- 200
Db 123 CDVNDKRVQSKERGEKALDYGIKFMETSAKANINVENAFFTLARDIKAKMDKKLGNSP 182
QY 201 EPSFQIRDYVESQKKRSS 218
Db 183 QGSNOGVKITPPDQKKRSS 200

RESULT 7
US-09-198-184-4
; Sequence 4, Application US/09198184
; Patent No. 6010859
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.

```

```

; APPLICANT: Guegler, Karl
; TITLE OF INVENTION: NOVEL RAB PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,184
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/824,873
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0240 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 207 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 234746
; US-09-198-184-4

Query Match 44.7%; Score 513.5; DB 3; Length 207;
Best Local Similarity 50.0%; Pred. No. 2.4e-49;
Matches 99; Conservative 41; Mismatches 53; Indels 5; Gaps 2;

QY 25 SYDLTGKVMLLGDTGVGKTCFLIQKDGAFSLGTFIATVGDIFRNKVVTVDGVVRVKLIQW 84
Db 4 TYDYLKLLLLIGDSGVGKTCVLFREFSEDAF-NSTFTSTIGIDFKIRTIELDGKRIKLIQW 62
QY 85 DTAGQERFRSVTHAYYRDAQALLLLYDITNKSFDNIRAWLTIHEHYAQRDVVMILGNK 144
Db 63 DTAGQERFRITTTAYYRGAMGIMLVYDITNEKSFDMIRNIRNIEEHASADVEKMILGNK 122
QY 145 ADMSSERVISEDGETLAREYGVFPFLETSAKTCMNVNELAFALAKELKYRAGHQAD- 200
Db 123 CDVNDKRVQSKERGEKALDYGIKFMETSAKANINVENAFFTLARDIKAKMDKKLGNSP 182
QY 201 EPSFQIRDYVESQKKRSS 218
Db 183 QGSNOGVKITPPDQKKRSS 200

RESULT 8
US-08-531-525-25
; Sequence 25, Application US/08531525
; Patent No. 5840683
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 5840683le, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
; TITLE OF INVENTION: Of P21 Ras

```


ADDRESSEE: Greenlee and Winner, P.C.
STREET: 5370 Manhattan Circle, Suite 201
CITY: Boulder
STATE: Colorado
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/531,525
FILING DATE: 21-SEP-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 37-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 207 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Discozyme ommata
US-08-531-525-35

Query Match 42.3%; Score 486; DB 2; Length 207;

Best Local Similarity 48.1%; Pred. No. 2.8e-46;
Matches 101; Conservative 44; Mismatches 49; Indels 16; Gaps 6;

QY 25 SYDLTGKVMLLGDTGKCTCFLLQKDFLSTGTFATVIGIDFRNKVTVVDGVRVKLQIW 84
Db 3 TYDLFLLLLGDSGVGKTCLLFRFSEDAP-NTFTSTIGIDFKIRVELDGKKIKLQIW 61
QY 85 DTAGQERFRSVTHAYYRDAQALLLLYDITNKSFDNIRAWLTIHEHYAQRDVVIMLLGNK 144
Db 62 DTAGQERFRIT-AYYRGAMGIMKV-DITNEKSFNKNWIRNIEEHASSDVERMILGNK 119
QY 145 ADMSSERVISEDGETLAREYGVPELETSAKTMNVELAFALAKELKYRAGHQADEPSF 204
Db 120 CDMNEKQVSKERGEKLAIDYGIKLETSAKSSINVEEAFITLARDIMTKLNKMMNSL 179
QY 205 QIRDYVE-----SOKKR--SSCCSFM 223
Db 180 Q--EAVDKLSPKPKSQKKQLSFRCSLL 207

RESULT 11

US-08-718-270A-35
Sequence 35, Application US/08718270A
Patent No. 5910478
GENERAL INFORMATION:
APPLICANT: Hiavka, Joseph J.
APPLICANT: Pincus, Matthew R.
APPLICANT: No. 5910478le, John F.
APPLICANT: Abajian, Henry B.
APPLICANT: Kende, Andrew S.
TITLE OF INVENTION: Peptidomimetics Inhibiting
the Oncogenic Action of P21 Ras
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
STREET: 5370 Manhattan Circle, Suite 201
CITY: Boulder
STATE: Colorado

COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/718,270A
FILING DATE: 20-SEP-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/531,525
FILING DATE: 21-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/004,091
FILING DATE: 21-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 78-95
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 207 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Discozyme ommata
US-08-718-270A-35

Query Match 42.3%; Score 486; DB 2; Length 207;

Best Local Similarity 48.1%; Pred. No. 2.8e-46;
Matches 101; Conservative 44; Mismatches 49; Indels 16; Gaps 6;

QY 25 SYDLTGKVMLLGDTGKCTCFLLQKDFLSTGTFATVIGIDFRNKVTVVDGVRVKLQIW 84
Db 3 TYDLFLLLLGDSGVGKTCLLFRFSEDAP-NTFTSTIGIDFKIRVELDGKKIKLQIW 61
QY 85 DTAGQERFRSVTHAYYRDAQALLLLYDITNKSFDNIRAWLTIHEHYAQRDVVIMLLGNK 144
Db 62 DTAGQERFRIT-AYYRGAMGIMKV-DITNEKSFNKNWIRNIEEHASSDVERMILGNK 119
QY 145 ADMSSERVISEDGETLAREYGVPELETSAKTMNVELAFALAKELKYRAGHQADEPSF 204
Db 120 CDMNEKQVSKERGEKLAIDYGIKLETSAKSSINVEEAFITLARDIMTKLNKMMNSL 179
QY 205 QIRDYVE-----SOKKR--SSCCSFM 223
Db 180 Q--EAVDKLSPKPKSQKKQLSFRCSLL 207

RESULT 12

US-08-531-525-51
Sequence 51, Application US/08531525
Patent No. 5840683
GENERAL INFORMATION:
APPLICANT: Hiavka, Joseph J.
APPLICANT: Pincus, Matthew R.
APPLICANT: No. 5840683le, John F.
APPLICANT: Abajian, Henry B.
APPLICANT: Kende, Andrew S.
TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
of P21 Ras
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee and Winner, P.C.
STREET: 5370 Manhattan Circle, Suite 201

```
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/531,525
; FILING DATE: 21-SEP-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/531,525
; FILING DATE: 21-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 37-94
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 198 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Canis familiaris
;
; US-08-531-525-51
;
; Query Match 41.6%; Score 478.5; DB 2; Length 198;
; Best Local Similarity 48.7%; Pred. No. 1.8e-45;
; Matches 97; Conservative 36; Mismatches 59; Indels 7; Gaps 4;
;
; QY 25 SYDLTKGVMLLGGTGVGKTCFLIQFDGAFLSGTFATVIGIDFNKVVTVVGVVVKLIQIW 84
; DB 4 TYDLLFKLLIGDSGVGKTCVLFREFSDAF-NTTFI-SIGIDFKIKTVELQGGKKIKLIW 61
;
; QY 85 DTAGQERFRSVTHAYRDAQALLLLDYITNKKSFDFNIRAWLTIHEIYAQRDVVIMLGNK 144
; DB 62 DTAGQERFHTTTSYRGGANGIMLVYDITNGKSFENISKWLNRIDEHANEDVERMLGNK 121
;
; QY 145 ADMSSERVIRSEDETALAREYGVFPFLETSAKTGMNVELAFATAKELKYRAGHQADEPSF 204
; DB 122 CDMDKRVVPKGGKGEIAREHGIRFFETSAAKVNINIEKAFLLAEDILRKT--PVKEPNS 179
;
; QY 205 QIRDYVES---QKRSSCC 220
; DB 180 ENVDISSGGGVGTGWSKCC 198
;
; RESULT 13
; US-08-718-270A-51
; Sequence 51, Application US/08718270A
; Patent No. 5910478
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 59104781e, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptidomimetics Inhibiting
; TITLE OF INVENTION: the Oncogenic Action of P21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
```

```
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/718,270A
; FILING DATE: 20-SEP-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/531,525
; FILING DATE: 21-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/004,091
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 78-95
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 51:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 198 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Canis familiaris
;
; US-08-718-270A-51
;
; Query Match 41.6%; Score 478.5; DB 2; Length 198;
; Best Local Similarity 48.7%; Pred. No. 1.8e-45;
; Matches 97; Conservative 36; Mismatches 59; Indels 7; Gaps 4;
;
; QY 25 SYDLTKGVMLLGGTGVGKTCFLIQFDGAFLSGTFATVIGIDFNKVVTVVGVVVKLIQIW 84
; DB 4 TYDLLFKLLIGDSGVGKTCVLFREFSDAF-NTTFI-SIGIDFKIKTVELQGGKKIKLIW 61
;
; QY 85 DTAGQERFRSVTHAYRDAQALLLLDYITNKKSFDFNIRAWLTIHEIYAQRDVVIMLGNK 144
; DB 62 DTAGQERFHTTTSYRGGANGIMLVYDITNGKSFENISKWLNRIDEHANEDVERMLGNK 121
;
; QY 145 ADMSSERVIRSEDETALAREYGVFPFLETSAKTGMNVELAFATAKELKYRAGHQADEPSF 204
; DB 122 CDMDKRVVPKGGKGEIAREHGIRFFETSAAKVNINIEKAFLLAEDILRKT--PVKEPNS 179
;
; QY 205 QIRDYVES---QKRSSCC 220
; DB 180 ENVDISSGGGVGTGWSKCC 198
;
; RESULT 14
; US-08-531-525-10
; Sequence 10, Application US/08531525
; Patent No. 5840683
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 58406831e, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptides Inhibiting the Oncogenic Action
; TITLE OF INVENTION: of P21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee and Winner, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
```

us-09-817-199a-2.rai

```

COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/531,525
FILING DATE: 21-SEP-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 37-94
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 215 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORGANISM: Arabidopsis thaliana
US-08-531-525-10

Query Match 41.6%; Score 478.5; DB 2; Length 215;
Best Local Similarity 45.1%; Pred. No. 2e-45;
Matches 96; Conservative 50; Mismatches 54; Indels 13; Gaps 6;

QY 19 SPP--CSPSYDITGVKMLIGDTGVTCKFLIQFDKGAFLSGTFTATVGVIDFRNKVVTVDG 76
   |||      || :||::||||| :||| :||| :|||::||| :||| :||| :||| :|||
Db 3 APPARADYDYLIKLLLIGDSVGKSCLLLRSDGSFTT-SPTTTIGIDFKIRTIELDG 61

QY 77 VRVKLIQTACQGRFSRVTHYYRDAQALLLLDIYNKSDFDNIRAWLTIEIHEYAQRDV 136
   |::|||::||| ::||| :|||::|||::||| :||| :||| :||| :||| :|||
Db 62 KRILQLIWTAQGER-RTIITYAYRGANGILLVDYDVTDSESNRNIRNIRNISQHASNW 120

QY 137 VMILGNKADM--SSERVSRDEGETLAREYGVPFELETSAKTGMNVELAFIAIAELKYR- 194
   |:|:|||::||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 121 NKLIVGNKADMESKRNVPTAKQALADEYGIKKFFEYSAKTNLVVEVFISIGEDIKQRL 180

QY 195 --AGHQADEPFSFIIRDYVES-----QKRSSCC 220
       :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 181 SDTDSRAFAPATTKISTOTDOAAGCATOKSACC 213

```

```

RESULT 15
US-08-718-270A-10
; Sequence 10, Application US/08718270A
; Patent No. 5910478
; GENERAL INFORMATION:
; APPLICANT: Hlavka, Joseph J.
; APPLICANT: Pincus, Matthew R.
; APPLICANT: No. 5910478le, John F.
; APPLICANT: Abajian, Henry B.
; APPLICANT: Kende, Andrew S.
; TITLE OF INVENTION: Peptidomimetics Inhibiting
; TITLE OF INVENTION: The Oncogenic Action of P21 Ras
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

```

```

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/718,270A
; FILING DATE: 20-SEP-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/531,525
; FILING DATE: 21-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/004,091
; FILING DATE: 21-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 78-95
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 215 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Arabidopsis thaliana
;
US-08-718-270A-10

```

Search completed: January 16, 2003, 06:30:53
Job time : 26 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 16, 2003, 06:32:26 ; Search time 20 seconds
(without alignments)
221.645 Million cell updates/sec

Title: US-09-817-199A-2

Perfect score: 1150

Sequence: 1 MTGTPGAVATRDGEAPERSP.....FOIRDYVESQKRSSCCSFM 223

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 120991 seqs, 19878514 residues

Total number of hits satisfying chosen parameters: 120991

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*

1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*

2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*

4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*

5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*

6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*

7: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*

8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*

9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*

10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep.*

11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*

12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep.*

13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*

14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1150	100.0	223	10	US-09-817-199A-2
2	1144	99.5	226	9	US-09-764-868-684
3	1133	98.5	222	9	US-09-764-868-1106
4	1081	94.0	223	10	US-09-817-199A-4
5	977	85.0	191	10	US-09-794-257-14
6	977	85.0	191	12	US-10-051-986-3
7	547	47.6	106	10	US-09-867-550-1812
8	535	46.5	139	9	US-09-764-868-688
9	501	43.6	207	10	US-09-794-257-8
10	500	43.5	190	10	US-09-822-860-5
11	498	43.3	218	10	US-09-925-300-1571
12	497.5	43.3	162	10	US-09-834-765-766
13	483	42.0	246	10	US-09-925-302-534
14	472	41.0	201	10	US-09-967-736-8
15	468	40.7	201	10	US-09-967-736-3
16	466	40.5	198	10	US-09-794-257-16
17	466	40.5	198	10	US-09-945-173-5
18	466	40.5	198	10	US-09-972-529-4
19	458.5	39.9	222	10	US-09-820-003A-4

20	448.5	39.0	212	10	US-09-350-874-67	Sequence 67, Appl
21	435	37.8	401	9	US-09-764-868-701	Sequence 701, App
22	429.5	37.3	198	9	US-09-764-868-1120	Sequence 1120, Ap
23	429	37.3	212	10	US-09-817-198A-2	Sequence 2, Appli
24	427.5	37.2	212	10	US-09-817-198A-4	Sequence 4, Appli
25	416	36.2	218	10	US-09-817-198A-5	Sequence 5, Appli
26	413.5	36.0	307	9	US-09-764-868-1100	Sequence 1100, Ap
27	413.5	36.0	312	10	US-09-925-302-783	Sequence 783, App
28	386	33.6	832	10	US-09-834-765-2	Sequence 2, Appli
29	377.5	32.8	222	9	US-09-764-868-1112	Sequence 1112, Ap
30	377.5	32.8	225	9	US-09-764-868-692	Sequence 692, App
31	373.5	31.7	213	10	US-09-794-257-5	Sequence 5, Appli
32	365	31.7	208	9	US-10-108-605-45	Sequence 45, Appl
33	364.5	31.7	624	10	US-09-834-765-5	Sequence 5, Appli
34	364.5	31.7	625	10	US-09-834-765-762	Sequence 762, App
35	360.5	31.3	168	10	US-09-834-765-765	Sequence 765, App
36	360	31.3	239	10	US-09-925-301-1077	Sequence 1077, Ap
37	359	31.2	217	10	US-09-988-974-3	Sequence 3, Appli
38	358.5	31.2	213	10	US-09-988-974-8	Sequence 8, Appli
39	352.5	30.7	217	10	US-09-925-300-1364	Sequence 1364, Ap
40	350	30.4	201	10	US-09-822-860-2	Sequence 2, Appli
41	349.5	30.4	161	10	US-09-834-765-763	Sequence 763, App
42	344.5	30.0	211	12	US-10-051-986-6	Sequence 6, Appli
43	339	29.5	216	10	US-09-945-173-10	Sequence 10, Appl
44	320.5	27.9	222	9	US-09-764-868-1121	Sequence 1121, Ap
45	319.5	27.8	157	10	US-09-834-765-764	Sequence 764, App

ALIGNMENTS

RESULT 1

US-09-817-199A-2

; Sequence 2, Application US/09817199A

; Patent No. US20020142380A1

; GENERAL INFORMATION:

; APPLICANT: SHAO, Wei et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS, NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; TITLE OF INVENTION: PROTEINS, AND USES THEREOF

; FILE REFERENCE: CLO01187

; CURRENT APPLICATION NUMBER: US/09/817.199A

; CURRENT FILING DATE: 2001-03-27

; NUMBER OF SEQ ID NOS: 25

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 223

; TYPE: PRT

; ORGANISM: Human

US-09-817-199A-2

Query Match	100.0%;	Score 1150;	DB 10;	Length 223;
Best Local Similarity	100.0%;	Pred. No. 3.5e-109;		
Matches 223;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MTGTPGAVATRDGEAPERSPPCSYDITGKVMLLGDTGVGKTCFLIOFKDGAFLSGTFI	60	
Db	1	MTGTPGAVATRDGEAPERSPPCSYDITGKVMLLGDTGVGKTCFLIOFKDGAFLSGTFI	60	
Qy	61	ATVGIDFENKVVTVGVRVKLIQIWDTAGQERFRSVTHAYYRDAQALLLLYDITNKSSFDN	120	
Db	61	ATVGIDFENKVVTVGVRVKLIQIWDTAGQERFRSVTHAYYRDAQALLLLYDITNKSSFDN	120	
Qy	121	IRAWLTHETHEAQRDVTVMILGNKADMSRVSIRSEDETALREYGVFPLETSKATGMNV	180	
Db	121	IRAWLTHETHEAQRDVTVMILGNKADMSRVSIRSEDETALREYGVFPLETSKATGMNV	180	
Qy	181	ELAFIATLAKELKVRAGHQADPEFSQIRDYVESQKRSSCCSFM	223	
Db	181	ELAFIATLAKELKVRAGHQADPEFSQIRDYVESQKRSSCCSFM	223	
RESULT 2				

[illegible]

US-09-794-257-14

Query Match 85.0%; Score 977; DB 10; Length 191;
Best Local Similarity 100.0%; Pred. No. 9.5e-92;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 33 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNVTVDCGVRVKLQIWDTAGQERF 92
DB 1 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNVTVDCGVRVKLQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 152
DB 61 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 120
QY 153 IRSDGETLAREYGVPELETSKTMNMVELAFLAIAKELKYRAGHQADEPSFQIRDYVES 212
DB 121 IRSDGETLAREYGVPELETSKTMNMVELAFLAIAKELKYRAGHQADEPSFQIRDYVES 180
QY 213 QKKRSSCCSFM 223
DB 181 QKKRSSCCSFM 191

RESULT 6

US-10-051-986-3
; Sequence 3, Application US/10051986
; Patent No. US20020146770A1
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; Tang, Y. Tom
; Lal, Preeti
; Guegler, Karl J.
; Corley, Neil C.
; Patterson, Chandra
; Batra, Sajeev
; Baughn, Mariah R.
; TITLE OF INVENTION: RAS PROTEINS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/051,986
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/766,551
; FILING DATE: DECEMBER 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C.
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0168-1 CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: UCMCL5T01

CLONE: 1528559
; SEQUENCE DESCRIPTION: SEQ ID NO: 3 :
US-10-051-986-3

Query Match 85.0%; Score 977; DB 12; Length 191;
Best Local Similarity 100.0%; Pred. No. 9.5e-92;
Matches 191; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 33 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNVTVDCGVRVKLQIWDTAGQERF 92
DB 1 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNVTVDCGVRVKLQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 152
DB 61 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 120
QY 153 IRSDGETLAREYGVPELETSKTMNMVELAFLAIAKELKYRAGHQADEPSFQIRDYVES 212
DB 121 IRSDGETLAREYGVPELETSKTMNMVELAFLAIAKELKYRAGHQADEPSFQIRDYVES 180
QY 213 QKKRSSCCSFM 223
DB 181 QKKRSSCCSFM 191

RESULT 7

US-09-867-550-1812
; Sequence 1812, Application US/09867550
; Patent No. US20020082206A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fuad,
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1 Polynucleotides from Atherogenic Cells a
; FILE REFERENCE: 214-02-013 (Cura-313)
; CURRENT APPLICATION NUMBER: US/09/867,550
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: USSN 60/208,427
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1812
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-867-550-1812

Query Match 47.6%; Score 547; DB 10; Length 106;
Best Local Similarity 100.0%; Pred. No. 1.6e-48;
Matches 106; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 33 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNVTVDCGVRVKLQIWDTAGQERF 92
DB 1 MLLGDTGVGKTCFLIQKDGAFSLGTFIATVGIDFRKNVTVDCGVRVKLQIWDTAGQERF 60
QY 93 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 138
DB 61 RSVTHAYYRDAQAALLLYDITNKSSFDNIRAWLTFEIEHYAQRDVVIMLLGNKADMSSERV 106

RESULT 8

US-09-764-868-688
; Sequence 688, Application US/09764868
; Patent No. US20020168711A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT232
; CURRENT APPLICATION NUMBER: US/09/764,868
; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - refer to PALM or file wrapper

; NUMBER OF SEQ ID NOS: 1510

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 688

; LENGTH: 139

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-764-868-688

Query Match 46.5%; Score 535; DB 9; Length 139;

Best Local Similarity 71.5%; Pred. No. 3.8e-47;

Matches 98; Conservative 19; Mismatches 20; Indels 0; Gaps 0;

QY 84 WDTAGQERFRSVTHAYRDAQALLLLYDITNKSSFDNIRAWLTHEIHYAQRDVMILGN 143

DB 1 WDTAGQERFRSVTHAYRDAHALLLYDITNKASFDNIOAWLTHEIHYAQRDVMILGN 60

QY 144 KADMSRVSIRSDGETLAREYGVFPLETSAGTGMNVELAFIAIAKELKYRAGHQADEPS 203

DB 61 KVDASHERVVKREDGKLAKEYGLPEMETSAGTGLNVDLAFIAIAKELQKRSKAPSEPR 120

QY 204 FOIRDYVESQKRSSCC 220

DB 121 FRLHDYVKREGGASCC 137

RESULT 9

US-09-794-257-8

; Sequence 8, Application US/09794257

; Patent No. US20020009804A1

; GENERAL INFORMATION:

; APPLICANT: Meyers, Rachel

; TITLE OF INVENTION: 32705, 23224, 27423, 32700, 32712, No. US20020009804A1e1

; TITLE OF INVENTION: Human G-Proteins

; FILE REFERENCE: 35800/209285

; CURRENT APPLICATION NUMBER: US/09/794,257

; CURRENT FILING DATE: 2001-02-27

; PRIOR APPLICATION NUMBER: 60/185,606

; PRIOR FILING DATE: 2000-02-29

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 8

; LENGTH: 207

; TYPE: PRT

; ORGANISM: homo sapiens

US-09-794-257-8

Query Match 43.6%; Score 501; DB 10; Length 207;

Best Local Similarity 49.2%; Pred. No. 1.9e-43;

Matches 98; Conservative 40; Mismatches 59; Indels 2; Gaps 2;

QY 25 SYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFIATVGDIFRNKVVTVYDGVVRVKLIW 84

DB 4 TYDLFKLLIGDSGVGKTCFLRFSEDAF-NTTFISTIGIDFKIRTVELDGKKIKLIW 62

QY 85 DTAGQERFRSVTHAYRDAQALLLLYDITNKSSFDNIRAWLTHEIHYAQRDVMILGNK 144

DB 63 DTAGQERFRITTTAYRGAMGIMLVYDITNEKSFNKNWIRNEEHASSDVERMILGN 122

QY 145 ADMSSRVSIRSDGETLAREYGVFPLETSAGTGMNVELAFIAIAKELKYRAGHQ-DEPS 203

DB 123 CDMDKQVSKERGEKLAIDYGIKFELETSKASSANVEEAFITLARDIMTKLRKMNDSNS 182

QY 204 FOIRDYVESQKRSSCCSF 222

DB 183 AGAGGPVKITENRSKKTsf 201

RESULT 10

US-09-822-860-5

; Sequence 5, Application US/09822860

; Patent No. US20020146795A1

; GENERAL INFORMATION:

; APPLICANT: ZHU, Shiaooping et al.

; TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,

; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE

; FILE REFERENCE: C0001214

; CURRENT APPLICATION NUMBER: US/09/822,860

; CURRENT FILING DATE: 2001-04-02

; NUMBER OF SEQ ID NOS: 5

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 5

; LENGTH: 190

; TYPE: PRT

; ORGANISM: Discopyge ommata

US-09-822-860-5

Query Match 43.5%; Score 500; DB 10; Length 190;

Best Local Similarity 50.3%; Pred. No. 2.1e-43;

Matches 96; Conservative 42; Mismatches 51; Indels 2; Gaps 2;

QY 27 DLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFIATVGDIFRNKVVTVYDGVVRVKLIQIWDT 86

DB 1 DYLFKLLIGDSGVGKTCFLRFSEDAF-NTTFISTIGIDFKIRTVELDGKKIKLIQIWDT 59

QY 87 AGQERFRSVTHAYRDAQALLLLYDITNKSSFDNIRAWLTHEIHYAQRDVMILGNKAD 146

DB 60 AGQERFRITTTAYRGAMGIMKVYDITNEKSFNKNWIRNEEHASSDVERMILGNKCD 119

QY 147 MSSRVSIRSDGETLAREYGVFPLETSAGTGMNVELAFIAIAKELKYRAGHQADEPSQ- 205

DB 120 MNEKQVSKERGEKLAIDYGIKFELETSKASSINVEEAFITLARDIMTKLRKMNENSLOE 179

QY 206 IRDYVESQKR 216

DB 180 AVDKLKSPPK 190

RESULT 11

US-09-925-300-1571

; Sequence 1571, Application US/09925300

; Patent No. US20020151681A1

; GENERAL INFORMATION:

; APPLICANT: Steve Ruben,

; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies

; FILE REFERENCE: PA101

; CURRENT APPLICATION NUMBER: US/09/925,300

; CURRENT FILING DATE: 2001-08-10

; PRIOR APPLICATION NUMBER: PCI/US00/05988

; PRIOR FILING DATE: 2000-03-08

; PRIOR APPLICATION NUMBER: 60/124,270

; PRIOR FILING DATE: 1999-03-12

; NUMBER OF SEQ ID NOS: 1890

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 1571

; LENGTH: 218

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-925-300-1571

Query Match 43.3%; Score 498; DB 10; Length 218;

Best Local Similarity 48.5%; Pred. No. 4e-43;

Matches 99; Conservative 36; Mismatches 63; Indels 6; Gaps 3;

QY 20 PCCSPSYDLTGKVMLLGDTGVGKTCFLIQKDGAFLSGTFIATVGDIFRNKVVTVYDGVVR 79

DB 18 PMAKTYDILLFKLLIGDSGVGKTCVLFPSDDAF-NTTFISTIGIDFKIRTVELDGKKI 76

QY 80 KQIWDTAGQERFRSVTHAYRDAQALLLLYDITNKSSFDNIRAWLTHEIHYAQRDVM 139

DB 77 KQIWDTAGQERFRITTTAYRGAMGIMLVYDITNGKSFENISKWIRNEEHANEDVERM 136

QY 140 LLGNKADMSRVSIRSDGETLAREYGVFPLETSAGTGMNVELAFIAIAKELKYRAGHQ 199


```

Db 2 NPEYDLFKLLIGDSGVGKSCLLLRFAADTY-TESYISTIGVDFKIRTIELDGKTIKQ 60
QY 83 IWDTAGQERFRSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTEIHEYAQRDVVIMLIG 142
Db 61 IWDTAGQERFRVTSYYRGAHGIIIVVDYDQESYANVKQLQELDRYASENVAKLLVG 120
QY 143 NKADMSRVRIRSEGETLAREYGVFPFLETSAKTGMNVELAFATAKELKYRAGHQA--- 199
Db 121 NKSDLTTKKVVDNTTAKBFADSLGIPFLETSAKNATNVQAFMTMAAEIKKRMGPGAASG 180
QY 200 -DEPSFQIRDYVESQKRRSSCC 220
Db 181 GERPNLKI-DSTPVKSASGGCC 201

RESULT 15
US-09-967-736-3
; Sequence 3, Application US/09967736
; Patent No. US20020103340A1
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; Lal, Preeti
; Corley, Neil C.
; Shah, Purvi
; TITLE OF INVENTION: RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/967,736
; FILING DATE: 28-Sep-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/154,602
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0367 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 201 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LIVRUT04
; CLONE: 2514506
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-967-736-3

Query Match 40.7%; Score 468; DB 10; Length 201;
Best Local Similarity 42.1%; Pred. No. 3.9e-40;
Matches 85; Conservative 53; Mismatches 58; Indels 6; Gaps 3;

QY 23 SPSYDLTGKVMILGDPGVGKTCFLIQKDGAFLSGTFIATVGIDFRNKVVTVDGVRVKLQ 82
Db 2 NPEYDLFKLLIGDSGVGKSCLLLRFAADTY-TESYISTIGVDFKIRTIELDGKTIKQ 60
QY 83 IWDTAGQERFRSVTHAYYRDAQALLLLYDITNKSSFDNIRAWLTEIHEYAQRDVVIMLIG 142
```

```

Db 61 IWDTAGQERFRVTSYYRGAHGIIIVVDYDQESYANVKQLQELDRYASENVAKLLVG 120
QY 143 NKADMSRVRIRSEGETLAREYGVFPFLETSAKTGMNVELAFATAKELKYRAGHQA--- 199
Db 121 NKSDLTTKKVVDNTTAKBFADSLGIPFLETSAKNATNVQAFMTMAAEIKKRMGPGAASG 180
QY 200 -DEPSFQIRDYVESQKRRSSCC 220
Db 181 GERPNLKI-DSTPVKPAGGGCC 201
```

Search completed: January 16, 2003, 06:37:29
Job time : 21 secs